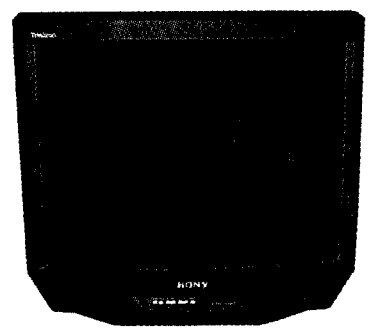
# SERVICE MANUAL AA-2D CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| **KV-27S22** | RM-Y135A | US | SCC-K96D-A |
| **KV-27S22** | RM-Y135A | CND | SCC-K97C-A |
| **KV-27S26** | RM-Y136A | US | SCC-K96P-A |
| **KV-27S26** | RM-Y136A | CND | SCC-K97L-A |
| **KV-27S36** | RM-Y136A | US | SCC-K96Q-A |
| **KV-27S36** | RM-Y136A | CND | SCC-K97M-A |
| **KV-29PS2** | RM-Y135A | MX | SCC-N02A-A |
| **KV-29RS22** | RM-Y135A | E | SCC-K98C-A |
| **KV-29RS22C** | RM-Y135A | E | SCC-K98B-A |
| **KV-29RS26** | RM-Y136A | E | SCC-K98M-A |
| **KV-29RS26C** | RM-Y136A | E | SCC-K98N-A |
| **KV-29SD2** | RM-Y135A | E | SCC-K98D-A |

Note: Adjustment Manual for this model is published separately

| | Adjustment Manual |
|---|---|
| Part No. | 9-965-829-01 |

RM-Y136A



KV-27S36

MICROFILM

TRINITRON® COLOR TV

SONY®

# SPECIFICATIONS

***For all models:***

| | |
|---|---|
| Television system | American TV standard |
| Channel coverage | VHF : 2-13<br>UHF : 14-69<br>CATV : 1-125 |
| Antenna | 75-ohm external antenna terminal for VHF / UHF |
| Picture tube | Hi-Black Trinitron® tube |

***For specific models:***

| | KV-27S22/29PS2/ 29RS22/29SD2 | KV-27S26/ 29RS26 | KV-27S36 | KV-29RS22C | KV-29RS26C |
|---|---|---|---|---|---|
| **Screen Size** (measured diagonally) | 27 inch | 27 inch | 27 inch | 27 inch | 27 inch |
| **Power requirements** | 120V, 60Hz | 120V, 60Hz | 120V, 60Hz | 220V, 50/60Hz | 220V, 50/60Hz |
| **Number of inputs/outputs** | | | | | |
| Video (1) | 1 | 2 | 2 | 1 | 2 |
| S video (2) | 0 | 1 | 1 | 0 | 1 |
| Audio (3) | 1 | 2 | 2 | 1 | 2 |
| Audio out (4) | 1 | 1 | 1 | 1 | 1 |
| **Speaker output (W)** | 5W x 2 | 5W x 2 | 5W x 2 | 5W x 2 | 5W x 2 |
| **Power consumption (W)**<br>**When in use (Max.)**<br>**In Standby** | 160W<br>9W | 165W<br>9W | 180W<br>9W | 160W<br>9W | 165W<br>9W |
| **Dimensions (W/H/D)**<br>**(mm)**<br>**(in.)** | 660.4 x 602.5 x 521.2 mm<br>26 x $23^{3/4}$ x $20^{5/8}$ in. | 660.4 x 602.5 x 521.2 mm<br>26 x $23^{3/4}$ x $20^{5/8}$ in. | 660.4 x 602.5 x 521.2 mm<br>26 x $23^{3/4}$ x $20^{5/8}$ in. | 660.4 x 602.5 x 521.2 mm<br>26 x $23^{3/4}$ x $20^{5/8}$ in. | 660.4 x 602.5 x 521.2 mm<br>26 x $23^{3/4}$ x $20^{5/8}$ in. |
| **Mass (kg)**<br>**(lb)** | 40.6 kg<br>89 lbs 8oz | 41 kg<br>90 lbs 7oz | 42 kg<br>92 lbs 10oz | 40.6 kg<br>89 lbs 8oz | 41kg<br>90 lbs 7oz |
| **Supplied accessories**<br>Remote commander (w/ 2 size AA (R6) batteries) | RM-Y135A | RM-Y136A | RM-Y136A | RM-Y135A | RM-Y136A |

(1) 1 Vp-p, 75 ohms unbalanced, sync negative
(2) Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
(3) 500 mVrms (100% modulation); Impedance: 47 kilohms
(4) More than 408 mVrms at the maximum volume setting (variable)
More than 408mVrms (fix); Impedance: 50 kilohms

*** Design and specifications are subject to change without notice.*

**Optional accessories**
Connecting cables VMC-810S/820S, VMC-720M, YC-15V/30V, RK-74A
TV Stand SU-27A
U/V mixer EAC-66

(●)® SRS (SOUND RETRIEVAL SYSTEM)

The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word "SRS" and the SRS symbol (●) are registered trademarks of SRS Labs, Inc.

# SAFETY CHECK-OUT
# (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

## HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

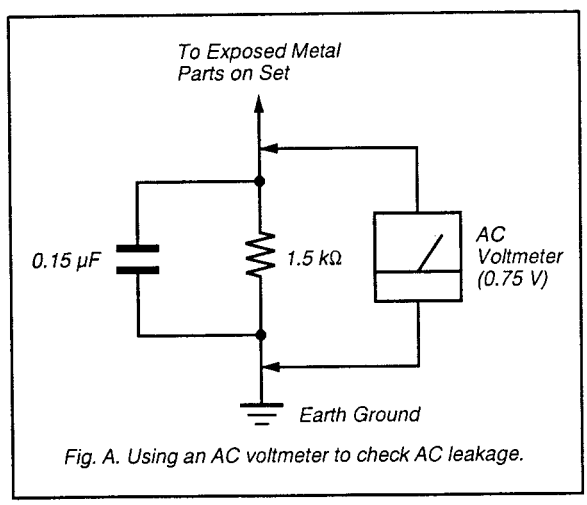



Fig. A. Using an AC voltmeter to check AC leakage.

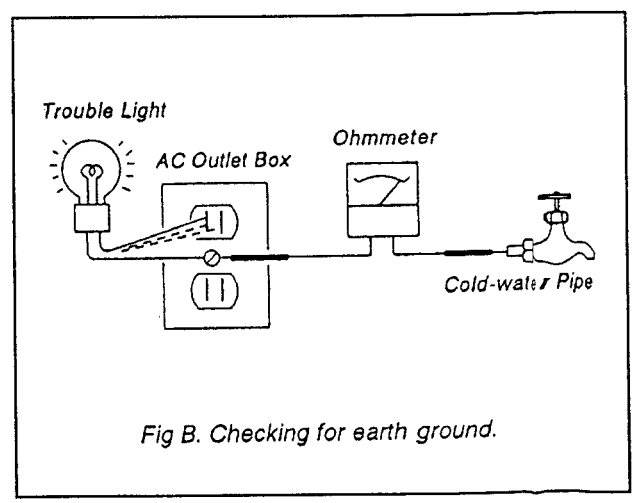



Fig B. Checking for earth ground.

# TABLE OF CONTENTS


| Section | Title | Page |
|---|---|---|
| **1.** | **GENERAL** | |
| | Welcome! | 5 |
| | Connecting and Installing the TV | 5 |
| | Connector Types | 5 |
| | Making Connections | 5 |
| | Installing the glass door | 7 |
| | Adjusting the shelf | 7 |
| | Basic Set up | 7 |
| | Inserting Batteries | 7 |
| | Using the remote control/Select buttons | 7 |
| | Adjusting slides | 7 |
| | On Line Help/Instructions | 7 |
| | Using your New TV | 8 |
| | Setting up the TV automatically | 8 |
| | Watching the TV | 8 |
| | Watching two programs at one time - PIP | 8 |
| | Adjusting your SET UP (menus) | 9 |
| | Learning menu selection | 9 |
| | Using the VIDEO menu | 9 |
| | Using the AUDIO menu | 9 |
| | Using the TIMER menu | 10 |
| | Using the SET UP menu | 10 |
| | Operating Video Equipment | 10 |
| | Setting the manufacturer's code | 10 |
| | VCR manufacturer code numbers | 10 |
| | MDP manufacturer code numbers | 10 |
| | Operating a cable box DBS receiver | 11 |
| | Troubleshooting | 11 |
| **2.** | **DISASSEMBLY** | |
| 2-1. | Rear Cover Removal | 12 |
| 2-2. | Chassis Assy Removal | 12 |
| 2-3. | Service Position | 12 |
| 2-4. | Picture Tube Removal | 13 |
| **3.** | **SAFETY RELATED ADJUSTMENTS** | 14 |
| **4.** | **DIAGRAMS** | |
| 4-1. | Block Diagram | 19 |
| 4-2. | Circuit Boards Location | 26 |
| 4-3. | Printed Wiring Boards and Schematic Diagrams | 26 |
| | • P Board (KV-27S26/27S36/29RS26/29RS26C) | 27 |
| | • SC Board (KV-27S36 only) | 30 |
| | • A Board | 31 |
| | • G Board | 39 |
| | • C Board | 41 |
| | • UV Board (KV-27S36 only) | 43 |
| | • AV Board (KV-27S36 only) | 47 |
| 4-4. | Semiconductors | 49 |
| **5.** | **EXPLODED VIEWS** | |
| 5-1. | Chassis | 50 |
| **6.** | **ELECTRICAL PARTS LIST** | 51 |


**CAUTION!**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

**WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

**SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**ATTENTION**

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

**ATTENTION!!**

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

**ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!**

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNEIMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONTIONNEMENT SUSPECTE.

The instructions mentioned here are partial abstracts from the Operating Instruction Manual.
The page numbers shown reflect those of the Operating Instruction Manual.

# SECTION 1
# GENERAL

## Welcome!

Thank you for purchasing the Sony Trinitron* Color TV. This manual is written for the models listed below. Before reading, check the model number on the rear of your TV.

Model KV-27S26 is used for illustration purposes. The screens displayed are for model KV-35V36. Differences in operation features are indicated in the text; for example, "KV-27S26 only".

| Model Number | Single tuner (VCR required for PIP) | Dual tuner (Ready to use PIP) | Lightwaves/RS | Tilt correction | Channel Fix | Reverse Channel Preview |
|---|---|---|---|---|---|---|
| KV-27S26 | • | | | | • | |
| KV-27S36 | | ○ | | | ○ | ○ |
| KV-27V26 | • | | • | | • | |
| KV-27V36 | | ○ | ○ | | ○ | ○ |
| KV-29RS26 | • | | | | • | |
| KV-29RS26C | ○ | | | | ○ | |
| KV-29V36C | | • | • | | • | • |
| KV-29V66M | ○ | | ○ | | ○ | ○ |
| KV-29V76M | | • | • | | • | • |
| KV-32S26 | ○ | | | | ○ | |
| KV-32S36 | | • | | | ○ | • |
| KV-32TW26 | ○ | | | | ○ | |
| KV-32V26 | • | | • | | • | |
| KV-32V36 | | ○ | ○ | | ○ | ○ |
| KV-34RS26C | • | | | | • | |
| KV-34V36C | | ○ | ○ | | ○ | ○ |
| KV-35S26 | • | | | • | • | |
| KV-35S36 | | ○ | | ○ | ○ | ○ |
| KV-35V36 | | • | • | ○ | ○ | ○ |
| KV-35V76 | | ○ | ○ | ○ | ○ | ○ |
| KV-37RS26 | • | | | • | • | |
| KV-37V36M | | ○ | ○ | ○ | ○ | ○ |

## Precautions

### Safety

- Operate the TV only on 120 V AC (except KV-29RS26C, 29V36C, 34RS26C, 34V36C).
- Operate the TV only on 220 V AC (KV-29RS26C, 29V36C, 34RS26C, 34V36C only).
- The plug is designed, for safety purposes, to fit in the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer (except KV-29RS26C, 29V36C, 34RS26C, 34V36C).
- If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified personnel before operating it further.
- If you will not be using the TV for several days, disconnect power by pulling the plug itself. Never pull on the cord.

*For details concerning safety precautions, see the supplied leaflet "IMPORTANT SAFEGUARDS".*

### Installing

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

## Using This Manual

This manual is divided into four major sections. We recommend that you carefully review the contents of each section in the order provided to ensure that you fully understand the operation of your new TV.

1 **Connecting and Installing the TV.**
This section will guide you through your initial set up. It will show you how to connect your new components, connect to your antenna or cable, and connect any accessories.

2 **Basic Set Up.**
This section will teach you the basic skills needed to operate your new TV. It will show you how to operate special functions of the remote control.

3 **Using your New TV.**
This section will show you how to begin using your new TV. It will show you how to use the AUTO SET UP feature, and how to use your remote control's features.

4 **Adjusting your Set Up (menus).**
This section will teach you how to access on-screen menus and adjust your TV's settings.

*Instructions in this manual are written for the remote control. Similar controls may be found on the TV console.*

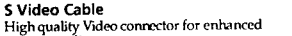
## Connecting and Installing the TV

### Connector Types

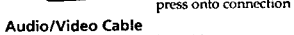
You may find it necessary to use some of the following connector types during set up.

**Coaxial Cable**
Standard TV Cable and Antenna connector

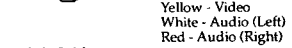
**S Video Cable**
High quality Video connector for enhanced picture quality




**Audio/Video Cable**
Conventional Audio/Video cable




**S-Link Cable**
Sony Link connector (only available on Sony products) for simultaneous control of your components




### Making Connections

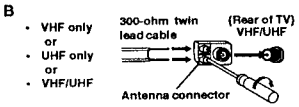
For best picture quality, a cable TV system or outdoor antenna is recommended.

**Connecting directly to cable or an antenna**

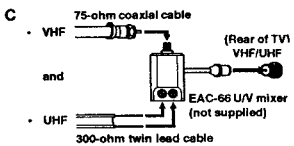
The connection you choose will depend on the cable found in your home. Newer homes will be equipped with standard coaxial cable (see **A**); older homes will probably have 300-ohm twin lead cable (see **B**); still other homes may contain both (see **C**).

**A**

**B**



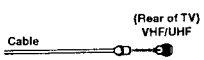

**C**






### Cable or antenna

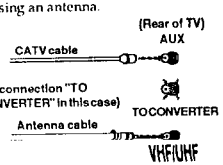
Most simple connection. Connection is made directly from the cable or antenna to the TV.




### Cable and antenna

- **KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only**

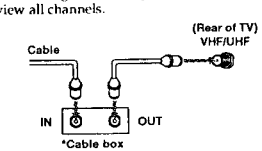
You may find it convenient to use the following set up if your cable provider does not feature local channels that you are able to receive using an antenna.




*Select Cable or ANT mode by pressing ANT on the remote control.*

### Connecting a cable box

Some pay cable TV systems use scrambled or encoded signals that require a cable box* to view all channels.



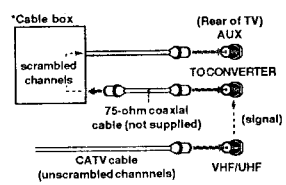

**Note:**

- If you will be controlling all channel selection through your cable box you should consider using the CHANNEL FIX feature discussed on page 22.

### Cable box and cable

- **KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only**

Some pay cable TV systems use scrambled or encoded signals requiring a cable box* only for certain channels (e.g. HBO, SHOWTIME, etc.).




For this set up, you can switch between scrambled channels (through your cable box), and normal (CATV) channels by pressing ANT on your remote control.

- Your Sony remote control can be programmed to operate your cable box (see page 26).

**Notes:**

- You cannot watch the signal through the "AUX" input as a window picture when using Picture-in-Picture (PIP).
- If you are connecting a cable box through the "AUX" input and would like to switch between the "AUX" and normal (CATV) input you should consider using the CHANNEL FIX feature discussed on page 22.



## Connecting and Installing the TV (continued)

Disconnect all power sources before making any connections.

### Connecting an antenna/cable TV system with a VCR

1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).*
3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.

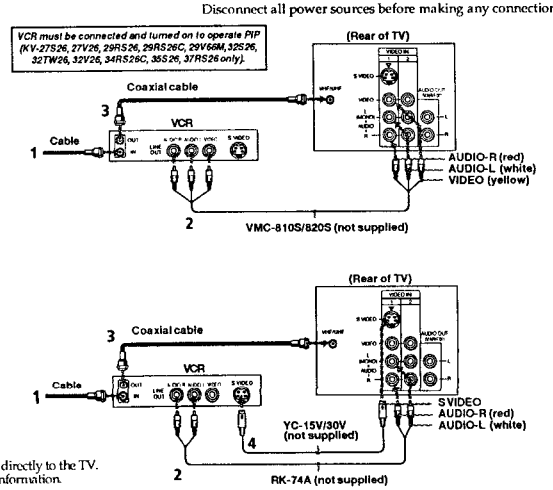
### Connecting to an S Video equipped VCR (for optimum picture quality)

1 Attach the coaxial connector from your cable or antenna to IN on your VCR.
2 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your TV (White-AUDIO Left, Red-AUDIO Right).*
3 Using a coaxial connector, connect OUT on your VCR to VHF/UHF on your TV.
4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your TV.

- If you are connecting a monaural VCR, connect only the single audio output to the left input on your TV.

**Note on DVD Connection:**

- For the best picture quality, connect the DVD player directly to the TV. Refer to your DVD manual for detailed connection information.



### Connecting a VCR and TV with a cable box

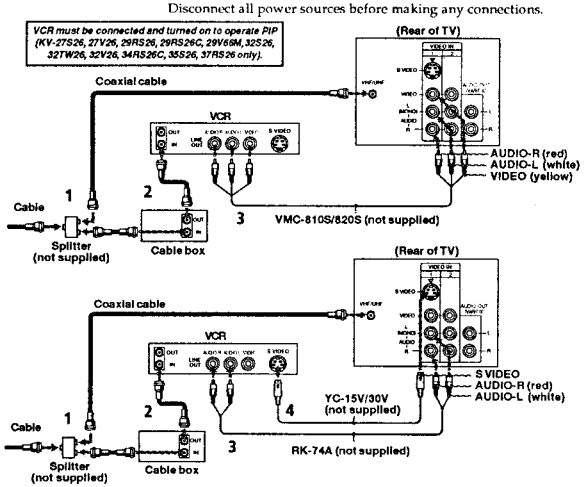
1 Connect the single (input) jack of the Splitter to your incoming cable connection, and connect the other two (output) jacks (using coaxial cable) to IN on your cable box and VHF/UHF on your TV.
2 Using a coaxial connector, connect OUT on your cable box to IN on your VCR.
3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

### Connecting to an S Video equipped VCR with a cable box (for optimum picture quality)

1-2 Perform as described above.
3 Using AUDIO connectors, connect AUDIO OUT on your VCR to AUDIO IN on your TV (White-AUDIO Left, Red-AUDIO Right).
4 Using an S VIDEO connector, connect S VIDEO on your VCR to S VIDEO on your TV.

**Note:**
- To view scrambled channels through your cable box, select VIDEO 1 by pressing TV/VIDEO on the remote control.

Disconnect all power sources before making any connections.






## Connecting and Installing the TV (continued)

### Connecting a DBS (Direct Broadcast Satellite) receiver

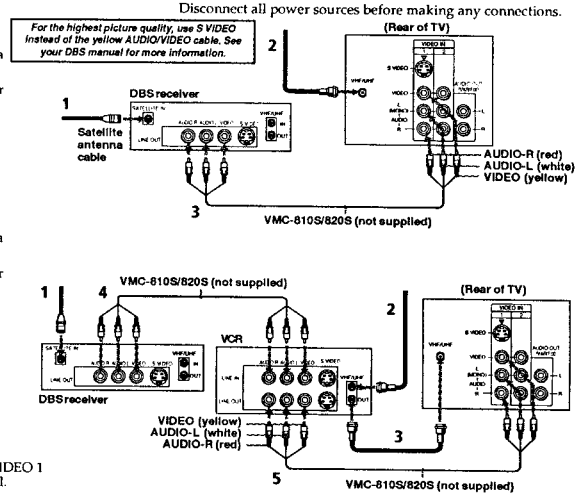
1 Connect the cable from your satellite antenna to your DBS receiver.
2 Attach the coaxial connector from your cable or antenna to VHF/UHF on your TV.
3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your TV.

### Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

1 Connect the cable from your satellite antenna to your DBS receiver.
2 Attach the coaxial connector from your cable or antenna to VHF/UHF-IN on your VCR.
3 Using a coaxial connector, connect VHF/UHF-OUT on your VCR to VHF/UHF on your TV.
4 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your VCR.
5 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

**Note:**
- To view input from the DBS or VCR, select VIDEO 1 by pressing TV/VIDEO on the remote control.

Disconnect all power sources before making any connections.






### Connecting an audio system

For greater viewing pleasure, integrate your home stereo into the system.

1 Using AUDIO connectors, connect AUDIO OUT on your TV to one of the unused Line inputs (e.g. Tape-2, etc.) on your stereo (White-AUDIO Left, Red-AUDIO Right).
2 Set your stereo to the chosen Line input and refer to page 20 of this manual for additional audio setup instructions.

### Connecting an AV receiver

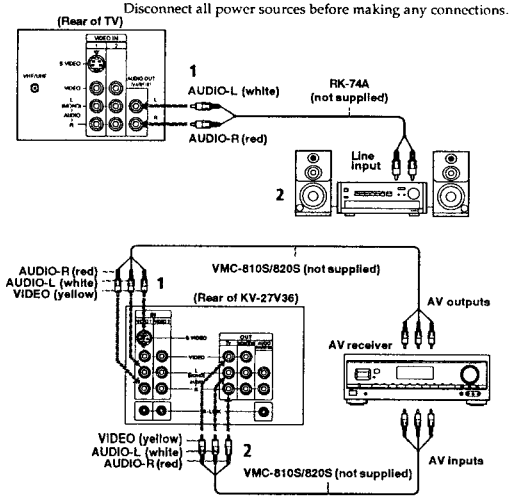
- **KV-27V36, 29V36C, 29V76M, 32V36, 34V36C, 35V36, 35V76, 37V36M only**

For greater viewing pleasure, connect your AV receiver.

1 Using AUDIO/VIDEO connectors, connect VIDEO 1 IN on your TV to Monitor AUDIO and VIDEO OUT on your AV receiver.
2 Using AUDIO/VIDEO connectors, connect TV OUT on your TV to TV AUDIO and VIDEO IN on your AV receiver.

*You may want to use CHANNEL FIX to fix your TV's input to the AV receiver (VIDEO 1). See CHANNEL FIX, page 22.*

Disconnect all power sources before making any connections.






## Connecting and Installing the TV (continued)

### Connecting two VCRs for tape editing using MONITOR OUT

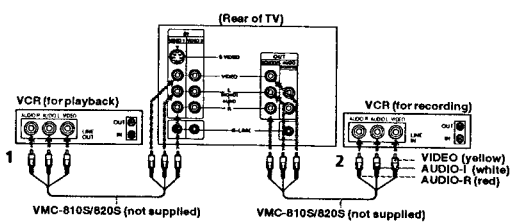
- **KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only**

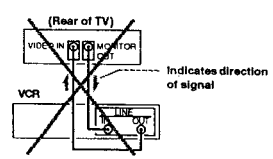
MONITOR OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

1 Connect the VCR intended for playback using the setup instructions on page 4 of this manual.
2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.

**Notes:**
- Do not change the input signal while editing through MONITOR OUT.
- When connecting a single VCR to the TV; if VCR LINE OUT is connected to TV VIDEO IN, do not connect the TV MONITOR OUT jacks to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.

Disconnect all power sources before making any connections.



### Using the S-Link function

- **KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only**

S-Link is a Sony innovation designed to make your Sony components work together. It allows you to automatically switch the TV input mode to video when you press PLAY on your Sony S-Link VCR. It also allows you to turn the VCR and TV off at the same time with the SYSTEM OFF button.

1 Connect your VCR using the setup instructions on page 4 of this manual.

2 Using an S-Link connector, connect the S-LINK jacks on your VCR and TV. Ensure that both ends are seated firmly and that the TV S-LINK connector is in the same row as the AUDIO/VIDEO connectors.

### Connecting a camcorder

- **KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only**

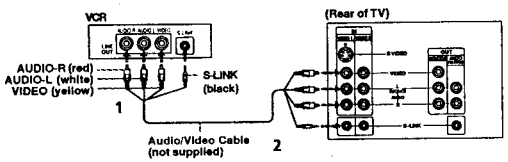
This connection is convenient for viewing a picture directly from your camcorder.

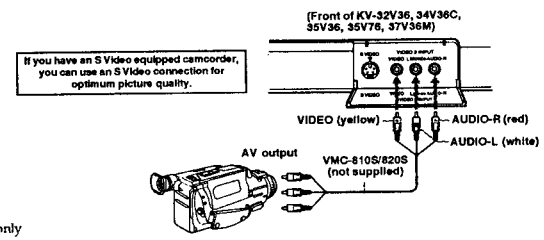
Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on the front panel of your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

**Note:**

- If you are connecting a monoaural camcorder, connect only the single audio output to the left input on your TV.

Disconnect all power sources before making any connections.



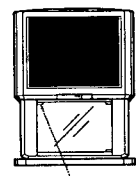


If you have an S Video equipped camcorder, you can use an S Video connection for optimum picture quality.
(Front of KV-32V36, 34V36C, 35V36, 35V76, 37V36M)
VIDEO (yellow)
AUDIO-R (red)
AUDIO-L (white)
AV output
VMC-810S/820S
(not supplied)



## Connecting and Installing the TV (continued)

### KV-32TW26 and KV-35V76 only

Follow these instructions to install the glass door and adjust the shelf.




Parts List

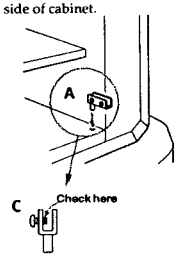
| | | | |
|---|---|---|---|
| A | Bottom hinge | | 1 |
| B | Top hinge | | 1 |
| C | Screw 4x4 | | 4 |
| D | Plate pad | | 1 |
| E | Plate | | 1 |
| F | Metal pin | | 4 |

**Note:**

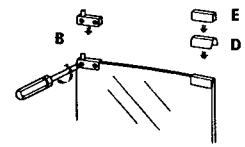
- Confirm that all parts are included before beginning assembly. If any parts are missing, contact your dealer.

### Installing the glass door

1 Check that the projection of the screw through the bottom hinge **A** does not interfere with the proper installation of the hinge to the glass door, and then insert the hinge into the hole located at the bottom right side of cabinet.

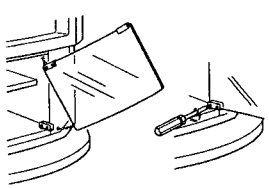



2 Attach the top hinge **B** to the right side of the glass door; tighten the screws snugly, but do not overtighten. Attach the plate pad **D** to the left side and push the plate **E** over the plate pad.



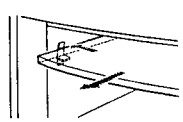



3 Push the top glass door hinge into the top right bushing and gently slide the glass door into the bottom hinge. Adjust the glass door until level, and tighten the hinge screws.

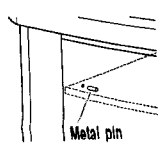


### Adjusting the shelf

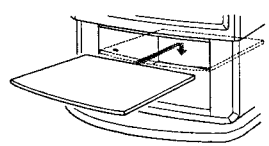
1 Press the upper part of the temporary shelf supports and remove the shelf.



2 Insert the metal pin shelf supports (2 each side).




3 Insert the shelf, ensuring that the pin supports are seated in the grooves on the bottom side of the shelf.





## Basic Set up

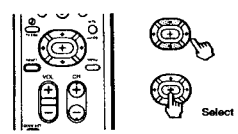
### Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and – on the batteries to the diagram inside the battery compartment.

**Notes:**

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. See page 24.

### Using the remote control Select buttons




The supplied remote control has select buttons which allow for movement of the on-screen selector in four directions. Pressing on the edge of the select buttons will cause the selector to *move* in the selected direction. Pressing the center of the select buttons " ⊕ " will *activate* the selected item.

### Adjusting sliders

When menu items present a slider ( ▬● or ●▬), use the select buttons (♦ or ♦) to adjust the setting.

### On Line Help/Instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions. *When presented, use these to supplement the instructions in this manual.*

## Using your New TV

### Setting up the TV automatically

The EASY SETUP GUIDE feature will allow you to set the on-screen language and set all receivable channels. The EASY SETUP GUIDE screen will appear every time you turn on the TV until you perform AUTO PROGRAM.

The EASY SETUP GUIDE feature does not apply for installations that use a cable box for all channel selection.

*To set up the TV manually, refer to "Using the SET UP menu" on page 22.*

*Tips*

- Perform this function during the day, with the antenna and/or cable properly connected, to ensure that all available channels will be broadcasting and receivable.
- After using EASY SETUP GUIDE you will still have the option of adjusting any of the system settings, like erasing channels, through the SETUP menu (page 22).
- The TV must be set to TV input to execute AUTO PROGRAM. Press ANT until the channel number appears.
- If your cable or antenna is connected to AUX, then press ANT until "AUX" appears next to the channel number. (KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only)

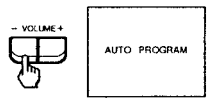
Using the buttons on the front of the TV:

For KV-27V36, 29V36C, 29V76M, 32V36, 34V36C, 35V36, 35V76 and 37V36M, the control buttons are located on the top of the TV.

**1** Press POWER to turn on the TV.
The EASY SETUP GUIDE screen appears.

**2** (Except Canadian models)
Press CHANNEL + to select English screens or CHANNEL – to select Spanish screens.

**3** Press VOLUME – to continue or TV/VIDEO for a DEMO of functions and menus.




"AUTO PROGRAM" appears and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, the lowest numbered channel is displayed. If the TV receives cable TV channels, CABLE is set ON automatically.

#### To perform AUTO SET UP again

- Press SET UP.
- Press CHANNEL + or CHANNEL – to select a language.
- Press Volume – to restore factory settings ("CONTINUE TO AUTO PROGRAM?" will appear on the screen. Press CH+ to execute or CH– to exit).
- Press SET UP to exit.

**Note:**

- When you perform AUTO PROGRAM, your CHANNEL FIX, TIMER, and CHANNEL BLOCK settings will be erased.



## Using your New TV (continued)

### Watching the TV

All of the TV features can be accessed via the remote control. The following chart will explain the function of the buttons found on your remote control.

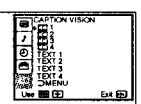
***REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART***

| | |
|---|---|
| TV (FUNCTION) | Activates the remote control for use with the TV. |
| TV POWER | Turns the TV on and off. If "VIDEO" appears on the screen, press TV/VIDEO or ANT so that a channel number appears. |
| ⓪-⑨ | Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0), the channel will change after 2 seconds, or you can press ENTER for immediate selection. |
| CH +/– | Press to scan through the channels (+ up or – down). |
| VOL +/– | Press to adjust the volume (+ up or – down). |
| JUMP | Press to alternate or *jump* back and forth between two channels. You can only jump between the last two channels that have been selected with the 0-9 keys. |
| MUTING | Press to mute the sound ("MUTING" will appear on the screen). Press again or press VOL + to restore sound. |
| FREEZE | Press to *freeze* the window picture while in PIP mode. If you are not in PIP mode, pressing FREEZE will cause the main picture to freeze into a window picture. Great for copying down phone numbers, addresses, recipes, etc. |



| | |
|---|---|
| SLEEP | Press repeatedly until the TV displays the approximate time in minutes (30, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until "SLEEP OFF" appears. |
| DISPLAY | Press repeatedly to step through available displays:<br>**Status**<br>Channel number, current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.<br>**XDS**<br>XDS (Extended Data Service) shows a network name, program name, program type, program length, call letters, and time of the show if the broadcaster offers this service.<br>**Caption Vision**<br>Caption Vision will be displayed on the screen if the broadcaster offers this service. (see right)<br>To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" disappears after three seconds. |
| TV/VIDEO | Press repeatedly to step through available video inputs:<br>**TV, Video 1 and Video 2** (KV-27S26, 27S36, 29RS26, 29RS26C, 32S26, 32S36, 32TW26, 34RS26C, 35S26, 35S36, 37RS26 only)<br>**TV, Video 1, Video 2 and Video 3** (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only) |
| ANT | Press to change the VHF/UHF input to the AUX input (KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only)<br>*For detailed connection information, see "Cable box and cable" or "Cable and antenna" on page 3.* |
| SYSTEM OFF | KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only.<br>Press to turn off the TV and all other equipment connected with S-Link and return the TV input to either antenna or AUX, whichever was last used. |
| MTS/GUIDE | Press this button to cycle through the Multi-channel TV Sound (MTS) options. (page 20) |

**CAPTION VISION**




Some programs are broadcast with Caption Vision. To display Caption Vision, select CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu, then press DISPLAY until Caption Vision is displayed.

CC1, CC2, CC3, or CC4 shows you a caption, that is, a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs) TEXT1, TEXT2, TEXT3, or TEXT4 shows you text, that is, information presented using either half or the whole screen. It is not usually related to the program.

**Notes:**

- Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of intended text.
- XDS, Caption Vision, and the status display cannot be used at the same time.



## Using your New TV (continued)

### Watching two programs at one time — PIP (Except KV-27S22/29RS22C/29RS22/29SD2/29PS2)

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture. This means that two separate tuners must be available to provide the two signals.

Certain models (KV-27S26, 27V26, 29RS26, 29RS26C, 29V66M, 32S26, 32TW26, 34RS26C, 35S26, 37RS26 only) are equipped with a single tuner. This simply means that a VCR must be connected and turned on for PIP to operate.

Tip

To ensure a correct single tuner PIP connection (KV-27S26, 27V26, 29RS26, 29RS26C, 29V66M, 32S26, 32TW26, 34RS26C, 35S26, 37RS26 only), make sure the following list of simple connections is complete before using PIP:

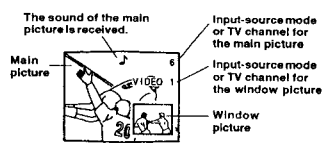
- A cable or antenna is connected to the VCR
- The VCR is connected to your TV
- The VCR is turned on

(for detailed connection information, see page 3-5)

**Note:**

- You must press TV (FUNCTION) before you can control PIP with the yellow labeled buttons.

***REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART***


The sound of the main picture is received.
Input-source mode or TV channel for the main picture
Main picture
Input-source mode or TV channel for the window picture
Window picture
VIDEO

| Use the Yellow Labeled Buttons for PIP Operations. | |
|---|---|
| PIP ⏭ | Press once to display the window picture (1/9 size).<br>Press again to reduce the size of the window picture (1/16 size).<br>Press a third time to remove the window picture. |
| TV/VIDEO ⊙ | Press repeatedly to step through available video inputs:<br>**TV, Video 1, Video 2, and Video 3** (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only)<br>*If you use one of the connections from page 4, your PIP input source is the VCR. If you use one of the connections from page 5, your PIP input source is a VCR or cable box.* |
| AUDIO ⏸ | Press to alternate sound between the main picture and the window picture. A ♪ will appear for a few seconds to indicate which picture is receiving sound. |

| Use the Yellow Labeled Buttons for PIP Operations. | |
|---|---|
| TV/VTR<br>+ ◯<br>CH<br>- ◯ | Press to change the TV channel in the window picture (+ to increase the channel number and – to decrease). For models KV-27S26, 27V26, 29RS26, 29RS26C, 29V66M, 32S26, 32TW26, 34RS26C, 35S26, and 37RS26, if you are watching the video input in the window picture, you must press VTR (FUNCTION), then use the main CH +/- buttons to change channels. |
| POSITION<br>◉ | Press to move the location of the window picture (counterclockwise) around the main picture. |
| FREEZE<br>◀◀ | Press to freeze the window picture. Great for copying down phone numbers, addresses, recipes, etc. If a window picture is displayed, then it will be frozen. If only the main picture is displayed, then it will be frozen and displayed as a window picture. *Press FREEZE again to restore the previous screen(s).* |
| SWAP<br>▶ | Press to switch the audio and video of the main picture and the window picture. Each time you press SWAP, the picture and sound of the two will be *SWAPPED.* *The channels being received through the AUX jack cannot be displayed as a window picture (KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37RS26, 37V36M only).* |



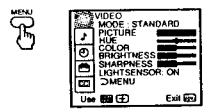
# Adjusting your SET UP (menus)

## Learning menu selection

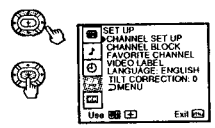
Use the MENU button to access a menu and use the Select buttons to alter settings. Use the following example to learn how to modify settings.

**1** Press the MENU button.

The main menu appears.

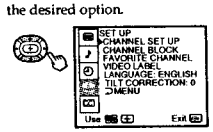



**2** Press the select buttons (♦ or ♦) to highlight the desired menu and press ⊕ to activate it.



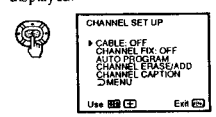



**3** Press the select buttons (♦ or ♦) to select the desired option.




**4** Press ⊕.

Options for your selection will be displayed.




**5** Make your selection and press ⊕ to activate it.

The previous screen will reappear.

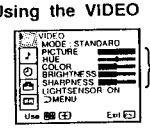
When you are done with changes to the selected menu, choose MENU to return to the main menu. Once you have completed all menu corrections, press MENU on the remote control to exit the menu screens.

**Note:**

- Pressing MENU on the remote control will allow you to exit from the menus.

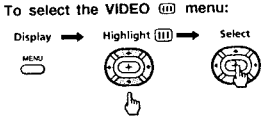


## Using the VIDEO menu




For detailed information on using the remote to modify menu settings, refer to "Learning menu selection" on page 18.

### To select the VIDEO menu:




### To restore the factory settings

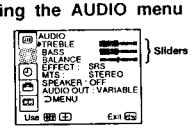
Press RESET on the remote control while the VIDEO menu is displayed.

| | |
|---|---|
| **MODE**<br>*Customized picture viewing* | **STANDARD:** Select to receive a standard picture.<br>**MOVIE:** Select to receive a finely detailed picture.<br>**SPORTS:** Select to receive a vivid, bright picture. |
| **PICTURE**<br>*Picture Adjustment* | Adjust slider left (cursor down) to decrease picture contrast and soften the color.<br>Adjust slider right (cursor up) to increase picture contrast and create more vivid color. |
| **HUE**<br>*Picture Adjustment* | Adjust slider left (cursor down) to decrease the green tones.<br>Adjust slider right (cursor up) to increase the green tones. |
| **COLOR**<br>*Picture Adjustment* | Adjust slider left (cursor down) to decrease color intensity.<br>Adjust slider right (cursor up) to increase color intensity. |
| **BRIGHTNESS**<br>*Picture Adjustment* | Adjust slider left (cursor down) to darken the picture.<br>Adjust slider right (cursor up) to brighten the picture. |
| **SHARPNESS**<br>*Picture Adjustment* | Adjust slider left (cursor down) to soften the picture.<br>Adjust slider right (cursor up) to sharpen the picture. |
| **LIGHTSENSOR**<br>*Picture Adjustment* | (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only)<br>**ON:** TV automatically adjusts the brightness of the picture according to the brightness of the room.<br>**OFF:** Brightness remains at preset value. |

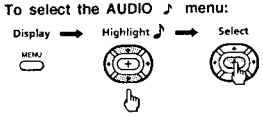


# Adjusting your SET UP (menus) (continued)

## Using the AUDIO menu




For detailed information on using the remote to modify menu settings, refer to "Learning menu selection" on page 18.

### To select the AUDIO menu:

### To restore the factory settings

Press RESET on the remote control while the AUDIO menu is displayed.

Tip

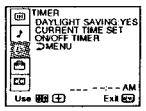
Press ⊕ for direct selection of an EFFECT setting.



| | |
|---|---|
| **TREBLE**<br>*Sound Adjustment* | Adjust slider left (cursor down) to decrease higher pitched sounds.<br>Adjust slider right (cursor up) to increase higher pitched sounds. |
| **BASS**<br>*Sound Adjustment* | Adjust slider left (cursor down) to decrease low pitched sounds.<br>Adjust slider right (cursor up) to increase low pitched sounds. |
| **BALANCE**<br>*Sound Adjustment* | Adjust slider left (cursor down) to emphasize left speaker volume.<br>Adjust slider right (cursor up) to emphasize right speaker volume. |
| **EFFECT**<br>*Customize sound affect based on the program's audio type.* | **SURROUND:** Simulates theater quality sound (only for stereo programs). (KV-27S26, 27S36, 29RS26, 29RS26C, 32S26, 32S36, 32TW26, 34RS26C, 35S26, 35S36, 37RS26 only)<br>**SRS:** Produces a dynamic three dimensional sound for stereo or encoded audio signals. (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only)<br>**SIMULATED:** Adds a surround-like effect to mono programs. (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only) |
| **MTS**<br>*Enjoy stereo, bilingual and mono programs.* | **STEREO:** Select for stereo reception when viewing a program broadcast in stereo.<br>**SAP:** Select to listen to bilingual broadcast. (non-SAP programs will be muted when this feature is selected)<br>**MONO:** Select for mono reception. (use to reduce noise during stereo broadcasts)<br>***Quick MTS access:*** *Press MTS on your remote to cycle through the MTS options as follows: (STEREO ♦ SAP ♦ MONO ♦ STEREO)* |
| **SPEAKER**<br>*Custom selection of audio output source.* | **ON:** Select to listen to the sound from the TV speakers and a separate stereo system.<br>**OFF:** Select to turn off the TV speakers and listen to the TV's sound only through external audio system speakers. |
| **AUDIO OUT**<br>*Easy control of volume adjustments.* | AUDIO OUT can only be set when speakers are set to OFF.<br>**VARIABLE:** Sound output varies according to the TV settings. Volume, Bass, Treble, and Balance are adjusted through the TV. Useful when you want to use your remote to control the output of a separate audio system.<br>**FIXED:** Sound output is held at a fixed level. Volume, Bass, Treble, and Balance are fixed to the factory settings. Volume adjustments are made through your stereo. |

KV-27S22/27S26/27S36/29SD2/29PS2/29RS22/29RS22C/29RS26/29RS26C

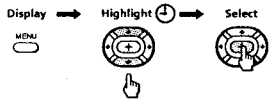
## Using the TIMER menu




After setting the clock you can use the timer to turn the TV on and off.

For detailed information on using the remote to modify menu settings, refer to "Learning menu selection" on page 18.

**To select the TIMER menu:**




Tip

Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

| | |
|---|---|
| **DAYLIGHT SAVING** *Automatically adjusts the time.* | **Spring:** Select YES to compensate for Daylight Saving Time. The current time automatically moves one hour ahead. **Fall:** Select NO at the end of Daylight Saving Time. The current time moves back one hour. |
| **CURRENT TIME SET** *Necessary for the TIMER.* | CURRENT TIME SET window will appear.<br>1 Press ♦ or ♦ on the select buttons until the current day (MON-SUN) is displayed. Press ⊕ to select.<br>2 Press ♦ or ♦ on the select buttons until the current hour (01-12) and AM/PM is displayed. Press ⊕ to select.<br>3 Press ♦ or ♦ on the select buttons until the current minute (00-59) is displayed.<br>4 Press ⊕.<br>The Clock has now started. Press MENU to exit. |
| **ON/OFF TIMER** *Wake up or scheduled viewing.* | ON/OFF TIMER window will appear.<br>1 Press ♦ or ♦ on the select buttons until the desired day (MON-SUN) or range of days (EVERY Sun-Sat or EVERY Mon-Fri) is displayed. Press ⊕ to select.<br>2 Indicate the time (hours then minutes) that you want the TV to turn on by pressing ♦ or ♦ and then ⊕.<br>3 Set the time duration (maximum of 6 hours) by pressing ♦ or ♦ and then ⊕.<br>**TO CANCEL THE TIMER FUNCTION, PRESS RESET.**<br>4 Press ♦ or ♦ on the select buttons to select the desired channel. Press ⊕ to select.<br>The timer is now set. The TIMER indicator on your TV will be lit.<br>Press MENU to exit. When you perform AUTO PROGRAM, all TIMER settings will be erased. |



## Adjusting your SET UP (menus) (continued)

### Using the SET UP menu

For detailed information on using the remote to modify menu settings, refer to "Learning menu selection" on page 18.

**To select the SET UP menu:**

If any menu items are "grayed out", press the ANT button on your remote so that a channel number appears.

Favorite channel feature is not available for the AUX input.



| | |
|---|---|
| **CHANNEL SET UP** *Basic set up options for viewing* | With the CHANNEL SET UP window open:<br>1 Use ♦ or ♦ to select the feature you want to change.<br>2 Press ⊕ to access the feature.<br>**CABLE:** Select ON if your TV is connected to a cable system. (AUTO SET UP will set CABLE to ON automatically when it programs the TV)<br>**CHANNEL FIX:** Use this feature to set the TV's input to one of the following options:<br>**2-6:** Choose when the cable box is connected to the VHF/UHF input and you do not want to switch to AUX mode. Once this setting is made you will not be able to use the "TV function" CH+/– to change channels; instead, use the "Cable function" CH +/–.<br>**AUX 2-6:** Choose when a cable box is connected to AUX and a cable or antenna is connected to ANT. You can alternate between the two inputs by pressing ANT on the remote control. (KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only)<br>**VIDEO 1:** Choose when you have connected video equipment (e.g. AV receiver) and you want TV input fixed to it. You will only be able to switch between video sources.<br>*TIMER and CHANNEL BLOCK settings are erased when CHANNEL FIX is set.*<br>**AUTO PROGRAM:** Instructs the TV to automatically program all receivable channels.<br>**CHANNEL ERASE/ADD:** With the CHANNEL ERASE/ADD window open:<br>1 Place the cursor next to ERASE or ADD.<br>2 Select the desired channel using CH+/–, or by selecting with the 0-9 buttons and pressing ENTER.<br>3 Press ⊕ to activate.<br>**CHANNEL CAPTION:** With the CHANNEL CAPTION window open:<br>1 Press ⊕ and then ♦ or ♦ on the select buttons to select the desired channel, and press ⊕ again.<br>2 Press ♦ or ♦ on the select buttons to display the first letter or number of the caption and press ⊕ to select it. (Repeat until all four digits are selected)<br>3 Press ⊕ to activate. *To erase a Caption, press RESET.* |



| | |
|---|---|
| **CHANNEL BLOCK** *Prevent child access to certain channels.* | You will be able to block two channels. With the CHANNEL BLOCK window open:<br>1 Select 1 or 2 and press ⊕.<br>2 Press ♦ or ♦ on the select buttons to display the channel you want to block.<br>3 Press ⊕ to activate.<br>When you select the blocked channel, "BLOCKED" will appear on the screen. Caption Vision, XDS, and output from the selected channel will also be blocked. To erase your CHANNEL BLOCK settings, press RESET while in the CHANNEL BLOCK window. When you perform AUTO PROGRAM, your CHANNEL BLOCK settings will be erased. |
| **FAVORITE CHANNEL** *Quick access to favorite channels* | **Setting FAVORITE CHANNEL:**<br>With the FAVORITE CHANNEL window open:<br>1 Press ⊕ and then ♦ or ♦ on the select buttons to select AUTO or MANUAL, and press ⊕ again. (Selecting AUTO will cause the last five channels that you chose with the remote control 0-9 buttons to be selected)<br>2 Press ♦ or ♦ on the select buttons to select 1, 2, 3, 4, or 5 and press ⊕.<br>3 Press ♦ or ♦ on the select buttons to select the desired channel and press ⊕.<br>4 For KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only, you can preview your favorite channels in the window picture, to do so, set PREVIEW DISPLAY to ON.<br>**Using FAVORITE CHANNEL:**<br>1 Press CH, and your FAVORITE CHANNEL options appear.<br>2 Press ♦ or ♦ to select the channel you want to watch, and press CH.<br>3 For models KV-27S36, 27V36, 29V36C, 29V76M, 32S36, 32V36, 34V36C, 35S36, 35V36, 35V76, 37V36M only, if PREVIEW is turned on, then a window picture will display your favorite channels as you cycle through the options. |
| **VIDEO LABEL** *Easy recognition of connected equipment (e.g. DBS, VHS, etc.).* | This feature allows you to label each input mode so that you can easily identify the connected equipment (e.g. you can label VIDEO 1 IN as VHS).<br>1 Press ♦ or ♦ on the select buttons to select the input mode you want to label and press ⊕.<br>2 Press ♦ or ♦ to select the label and press ⊕.<br>**VIDEO LABEL Options:**<br>Video 1: VHS, 8mm, BETA, LD, GAME, DBS, DVD, WEB, RECEIVER<br>Video 2/3: VHS, 8mm, BETA, LD, GAME, DBS, DVD, WEB |
| **LANGUAGE** | (Except Canadian models)<br>Select from available languages to cause all menus to appear in your language of choice. |
| **TILT CORRECTION** *Adjust your picture.* | Use this feature to correct any tilt of the picture KV-35S26, 35S36, 35V36, 35V76, 37RS26, 37V36M only.<br>Press ♦ or ♦ on the select buttons to select a correction between +5 and –5 and press ⊕. |



## Operating video equipment

### Setting the manufacturer's code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

1 Press CODE SET.
2 Press VTR (FUNCTION).
3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.
4 Press ENTER.

### VCR manufacturer code numbers

| Manufacturer | Code |
|---|---|
| Sony | 301, 302, 303 |
| Aiwa | 338, 344 |
| Admiral (M. Wards) | 327 |
| Audio Dynamic | 314, 337 |
| Bell & Howell (M. Wards) | 330, 343 |
| Broksonic | 319, 317 |
| Canon | 309, 308 |
| Citizen | 332 |
| Craig | 315, 302, 332 |
| Criterion | 315 |
| Curtis Mathis | 304, 338, 309 |
| Daewoo | 341, 312, 309 |
| DBX | 314, 336, 337 |
| Dimensia | 304 |
| Emerson | 319, 320, 316, 317, 318,341 |
| Fisher | 330, 334, 335, 333 |
| Funai | 338 |
| General Electric | 329, 304, 309 |
| Go Video | 322 |
| Goldstar | 332 |
| Hitachi | 306, 304, 305,338 |
| Instant Replay | 309, 308 |
| JC Penney | 309, 305, 304, 330, 314, 336, 337 |
| JVC | 314, 336, 337 |
| Kenwood | 314, 336, 332, 337 |
| LXI (Sears) | 332, 305, 333, 334, 330, 335, 338 |
| Magnavox | 308, 309, 310 |
| Marantz | 314, 336, 337 |
| Marta | 332 |
| Memorex | 309, 335 |
| Minolta | 305, 304 |
| Mitsubishi/MGA | 323, 324, 325, 326 |
| Multitech | 325, 338, 321 |
| NEC | 314, 336, 337 |
| Olympic | 309, 308 |
| Optimus | 327 |
| Panasonic | 308, 309, 306, 307 |
| Pentax | 305, 304 |
| Philco | 308, 309 |
| Philips | 308, 309, 310 |
| Pioneer | 308 |
| Quasar | 308, 309, 306 |
| RCA/PROSCAN | 304, 305, 308, 309, 311, 312, 313, 310, 329 |
| Realistic | 309, 330, 328, 335, 324, 338 |
| Sansui | 314 |
| Singer | 315 |
| Samsung | 322, 313, 321 |
| Sanyo | 330, 335 |
| Scott | 312, 313, 321, 335, 323, 324, 325, 326 |
| Sharp | 327, 328 |
| Shintom | 315 |
| Signature 2000 (M. Wards) | 338, 327 |
| Sylvania | 308, 309, 338, 310 |
| Symphonic | 338 |
| SV2000 | 338 |
| Tashiro | 332 |
| Tatung | 314, 336, 337 |
| Teac | 314, 336, 338, 337 |
| Technics | 309, 308 |
| Toshiba | 312, 311 |
| Wards | 327, 328, 335, 331, 332 |
| XR-1000 | 315 |
| Yamaha | 330, 314, 336, 337 |
| Zenith | 331 |

### MDP manufacturer code numbers

| Manufacturer | Code |
|---|---|
| Sony | 701 |
| Kenwood | 707 |
| Magnavox | 703 |
| Marantz | 702 |
| Mitsubishi | 702 |
| Panasonic | 704, 710 |
| Philips | 703 |

| | |
|---|---|
| Pioneer | 702 |
| RCA | 702, 709 |
| Sanyo | 706 |
| Sharp | 705 |
| Yamaha | 703, 708 |

*Tips*

- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
- The code numbers for Sony equipment are assigned at the factory as follows:

| | |
|---|---|
| VHS VCR | 301 (preset code for the supplied remote control) |
| 8 mm VCR | 302 |
| Beta, ED Beta VCRs | 303 |

- When you remove the batteries, the code number may revert to the factory setting.

| Operating a VCR | Buttons on the remote control |
|---|---|
| To turn on or off | Press VTR (POWER). |
| To select a channel directly | Press the 0 – 9 buttons. |
| To change channels | Press CH +/–. |
| To record | Press ► while pressing ●. First release ►, then release ●. |
| To play | Press ►. |
| To stop | Press ■. |
| To fast forward | Press ►►. |
| To rewind the tape | Press ◄◄. |
| To pause | Press II. To resume normal playback, press again. |
| To search the picture forward or backward | Press ►► or ◄◄ during playback. To resume normal playback, release the button. |
| To change input mode | Press TV/VTR. |

| Operating an MDP | Buttons on the remote control |
|---|---|
| To turn on or off | Press VTR (POWER). |
| To play | Press the ►. |
| To stop | Press ■. |
| To pause | Press II. To resume normal playback, press again. |
| To search the picture forward or backward | Keep pressing ►► or ◄◄ during playback. To resume normal playback, release the button. |
| To search the chapter forward or backward | Press CH +/–. |



## Operating a cable box or DBS receiver

### Programming the remote

You can program the supplied remote control to operate a cable box or DBS receiver.

1 Press CODE SET.

2 Press DBS/CABLE (FUNCTION).

3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.

4 Press ENTER.

#### To operate the TV

Press TV (FUNCTION). Then use the TV control buttons to control the TV.

#### For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

#### If the remote control doesn't work

- First, try repeating the setup procedures using the other codes listed for your equipment.

*Tips*

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

#### Manufacturer code numbers (cable box)

| Manufacturer | Code number |
|---|---|
| Hamlin/Regal | 222, 223, 224, 225, 226 |
| Jerrold/G. I. | 201, 202, 203, 204, 205, 206, 207, 208, 218 |
| Oak | 227, 228, 229 |
| Panasonic | 219, 220, 221 |
| Pioneer | 214, 215 |
| Scientific Atlanta | 209, 210, 211 |
| Tocom | 216, 217 |
| Zenith | 212, 213 |

#### Manufacturer code numbers (DBS receiver)

| Manufacturer | Code number |
|---|---|
| Sony | 801 (preset code for remote control) |
| General Electric | 802 |
| RCA/PROSCAN | 802 |





## Troubleshooting

### Troubleshooting

**Cannot Operate Single-Tuner PIP (KV-27S26, 27V26, 29RS26, 29RS26C, 29V66M, 32S26, 32TW26, 34RS26C, 35S26, 37RS26 only)**

- Check that cable is connected to the VCR, and the VCR is turned on.
- Check that the VCR is connected to the TV.

**No picture (screen not lit), no sound**

- Make sure the power cord is plugged in.
- Operate with the buttons on the TV and the remote control.
- Insert the batteries in the remote control with the correct polarity.
- Replace the batteries with new ones if they are weak.
- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3.
- Try another channel. *It could be station trouble.*
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

**Poor or no picture (screen lit), good sound**

- Adjust PICTURE in the VIDEO menu. (page 19)
- Adjust BRIGHTNESS in the VIDEO menu. (page 19)
- Check antenna/cable connections.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)
- Remove objects from the front of TV.
- Check the LIGHTSENSOR setting in the VIDEO menu. (page 19)

**Good picture, no sound**

- Press MUTING so that "MUTING" disappears from the screen. (page 14)
- Check the MTS setting in the AUDIO menu. (page 20)
- Make sure SPEAKER is set to ON in the AUDIO menu. (page 20)
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

**No color**

- Adjust the COLOR in the VIDEO menu. (page 19)
- Black and white programs cannot be seen in color.
- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

**Only snow and noise appear on the screen**

- Check the CABLE setting in the SET UP menu. (page 22)
- Check the antenna/cable connections.
- Make sure the channel is broadcasting programs.
- Press ANT to change the input mode. (page 15)

**Dotted lines or stripes**

- Adjust the antenna.
- Move the TV away from noise sources such as cars, neon signs, or hair-dryers.

**Double images or ghosts**

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

**Cannot operate menu**

- If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.



## Troubleshooting (continued)

**Cannot receive upper channels (UHF) when using an antenna**

- Make sure CABLE is OFF in the SET UP menu. (page 22)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (page 22)

**Cannot receive any channels when using cable TV**

- Make sure CABLE is ON in the SET UP menu. (page 22)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (page 22)

**Remote control does not operate**

- Batteries could be weak. Replace the batteries.
- Press TV (FUNCTION) when operating your TV.
- Make sure the TV's power cord is connected securely to the wall outlet.
- Locate the TV at least 3-4 feet away from fluorescent lights.
- Check the S-Link connection. (page 4,5)

**Cannot gain enough volume when using a cable box**

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the TV's volume.

**TV is fixed to one channel**

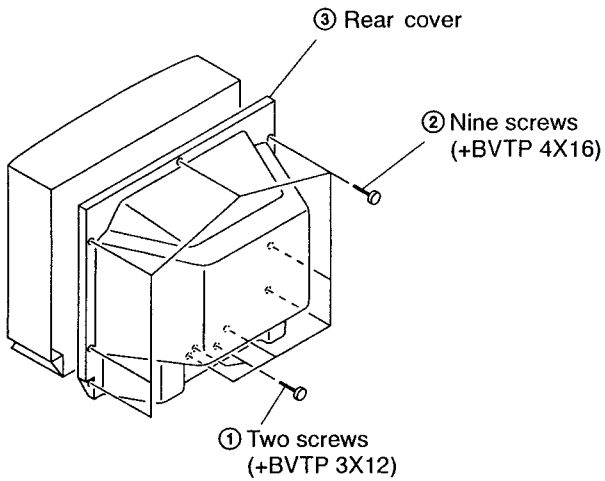
- Try turning CHANNEL FIX off. (see page 22)
- Use AUTO PROGRAM to add receivable channels that are not presently in the TV memory. (page 22)
- To reset the TV: First, turn the TV on. Then, while pressing the RESET key on the remote control, press the POWER Key on the TV. The TV will turn itself off, then back on. When the TV turns on again, all settings will be reset, and the EASY SETUP GUIDE will appear.

**TV malfunctions when using the S-Link function (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only)**

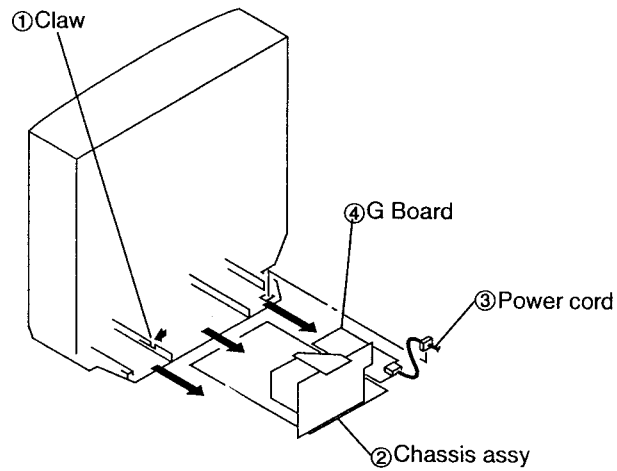
- Make sure the TV's power cord is connected securely to the wall outlet.
- Check the S-Link connection. (page 4,5)

# SECTION 2
# DISASSEMBLY

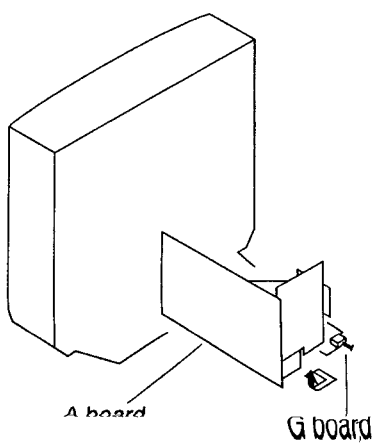
## 2-1. REAR COVER REMOVAL




## 2-2. CHASSIS ASSY REMOVAL




## 2-3. SERVICE POSITION

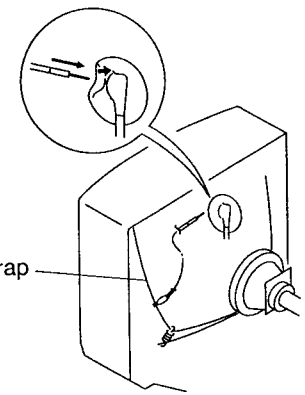


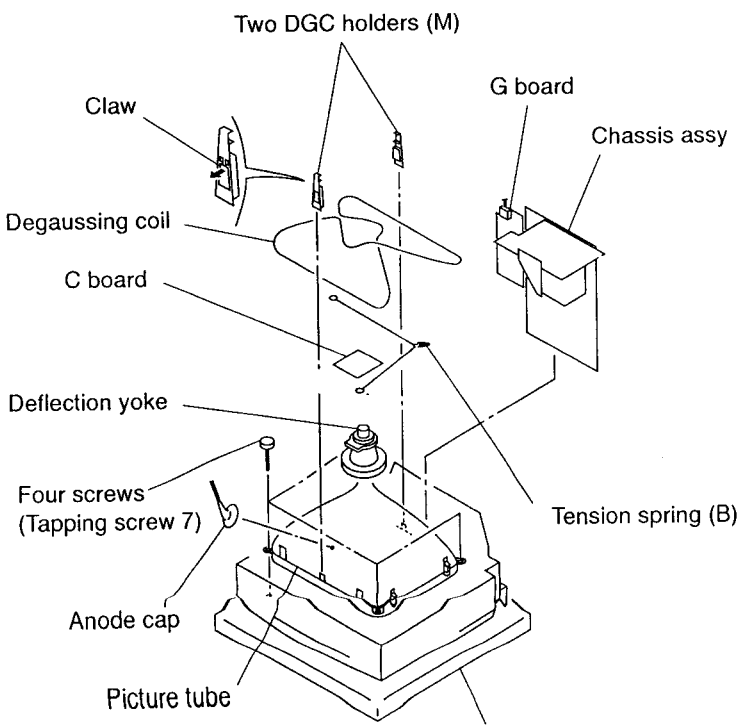
## 2-4. PICTURE TUBE REMOVAL

**WARNING : Before removing anode cap**

H.V. remains in the CRT even after the power is disconnected.

To avoid electrical shock before attempting to remove the anode cap, discharge CRT: Short between anode and CRT coated earth ground strap.



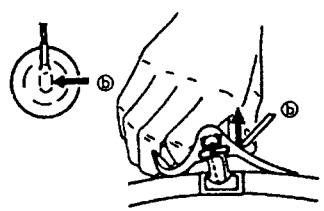



## • REMOVAL OF THE ANODE-CAP

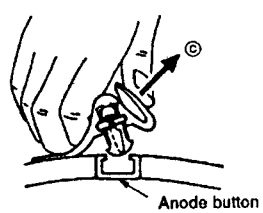
NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT.

### • REMOVAL PROCEDURES

① Turn up one side of the rubber cap in the direction indicated by arrow ⓐ.




② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow ⓑ.



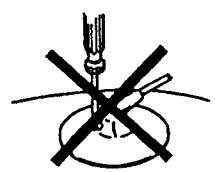

③ When one side of the rubber cap separates from the anode button, the anode-cap can be removed by turning the rubber cap and pulling it in the direction of arrow ⓒ.

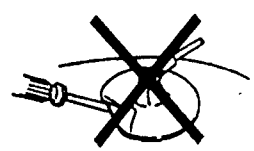
### • HOW TO HANDLE AN ANODE-CAP

Do not use sharp objects which may cause damage to the surface of the anode-cap.

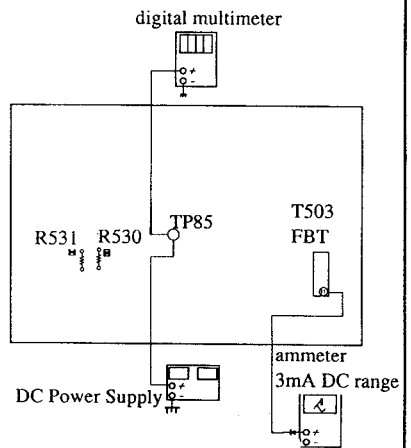
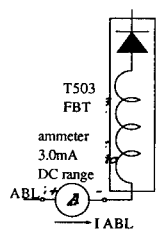
Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.

Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.





# SECTION 3
# SAFETY RELATED ADJUSTMENTS

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **⊠ RESISTOR CONFIRMATION METHOD ( HOLD-DOWN CONFIRMATION) AND READJUSTMENTS**<br>The following adjustments should always be performed when replacing the components marked with ◪ on the A and G Board schematic diagrams.<br>(Hold-down operation confirmation) | | ◪ marked parts<br>A Board<br>IC351,IC501<br>D519,D520,D521,<br>C531,C532,R387,<br>R529,R530,R531<br>R532,R533,R550,T503<br>G Board<br>IC643, R661 | ⊠ R530,531 | A BOARD - CONDUCTOR SIDE - |
| **Step 1**<br>Preparation before confirmation:<br>a) Turn the POWER switch ON, input a white signal and set the PICTURE and BRIGHTNESS controls to maximum. | White Picture | TP85 (H. PROT) | PICTURE<br>BRIGHTNESS<br>.....maximum } |  |
| b) Confirm that the voltage at the check terminal of TP85 is more than 18.0 VDC when the set is operating normally.<br>(120 ± 2.0 VAC) or (220 ±2.0 VAC for KV-29RS22C/ 29RS26C) | Digital multimeter | |  | [Check Condition]Step 2<br>2160 ±100 µA<br>120 $^{+2.0}_{-0}$VAC (Power Supply)<br>220 $^{+2.0}_{-0}$ VAC (Power Supply) (KV-29RS22C/ 29RS26C) |
| **Step 2**<br>Input a white signal and verify that I ABL is within the specified range. | White Picture | | | |
| **Step 3**<br>Record the voltage between TP85 and ground. | | | | [Check Condition]Step 4<br>lower than 22.05 V DC<br>120 $^{+2.0}_{-0}$ VAC (Power Supply)<br>220 $^{+2.0}_{-0}$ VAC (Power Supply) (KV-29RS22C/ 29RS26C) |
| **Step 4**<br>Using an external DC power supply, apply voltage between TP 85 and ground.<br>Increase the voltage gradually and confirm that the hold-down works (raster disappears) at lower than the voltage recorded in Step 3. | | | | |
| **Step 5**<br>Confirm that a voltage of more than 18.0 VDC appears between TP85 and ground. | White Picture | | PICTURE<br>BRIGHTNESS<br>.....maximum | [Check Condition]Step 5<br>more than 18.0V DC<br>120 $^{+2.0}_{-0}$ VAC (Power Supply)<br>220 $^{+2.0}_{-0}$ VAC (Power Supply) (KV-29RS22C/ 29RS26C) |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **B+ VOLTAGE CONFIRMATION**<br>The following adjustments should always be performed when replacing the components marked with ◪ on the schematic. | | G-Board<br>IC643, R661 | | |
| 1) Supply AC Voltage with a variable auto-transformer. | Variable auto-transformer | | | 130 $^{+2.0}_{-0}$ V AC<br>220 $^{+2.0}_{-0}$ V AC (KV-29RS22C/29RS26C) |
| 2) Input an entirely monoscope signal. | Monoscope | | | |
| 3) Set the PICTURE control and the BRIGHTNESS control to initial reset value. | | | PICTURE, BRIGHTNESS<br>..... initial reset | |
| 4) Confirm the voltage of the G board CN641 between pin 1 to ground is less than 136.5 VDC. | | G Board CN641<br>Pin 1 - ground | | |
| 5) If step 4) is not satisfied, replace the R661 and repeat above steps. | | | | |

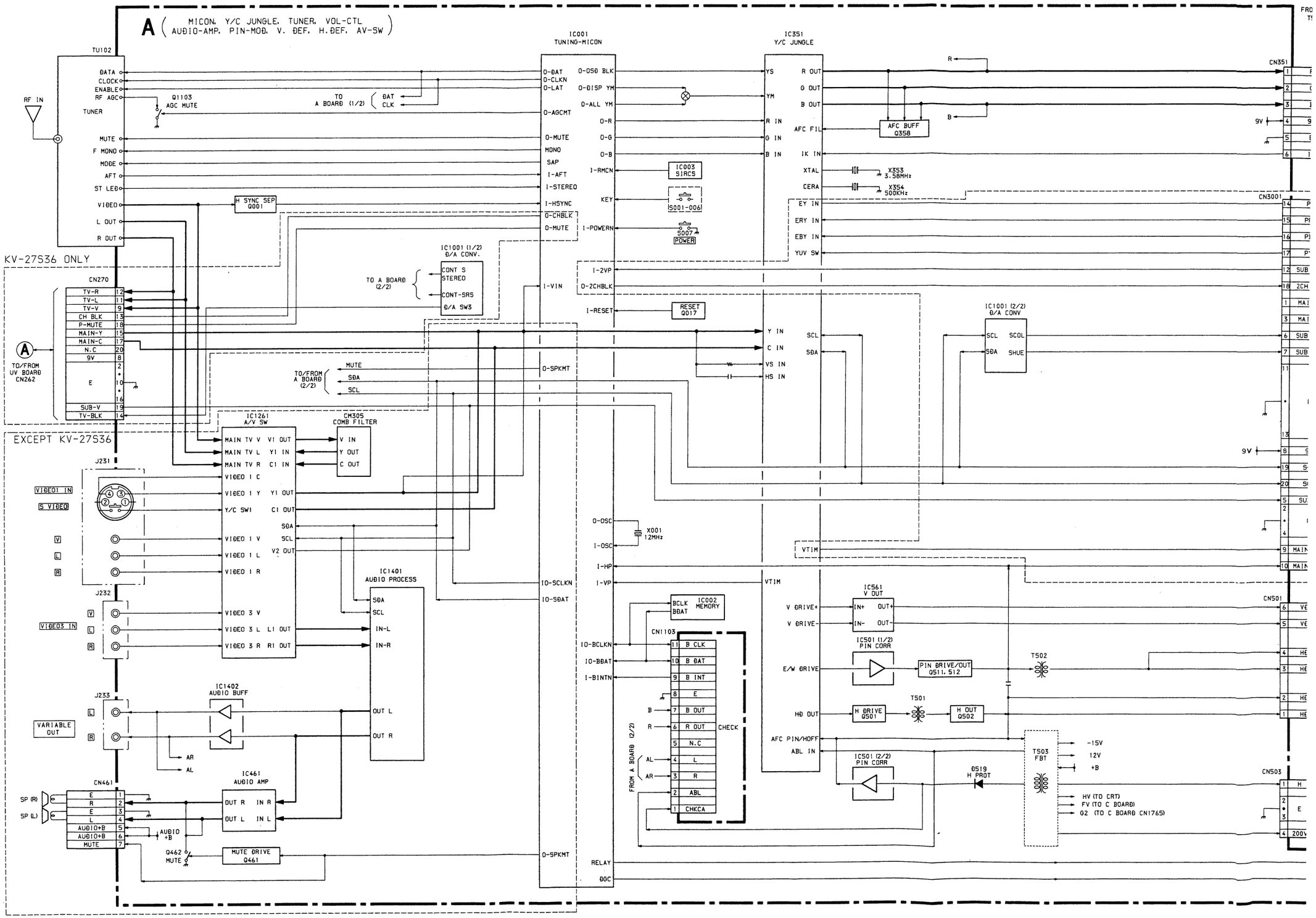
NOTES:

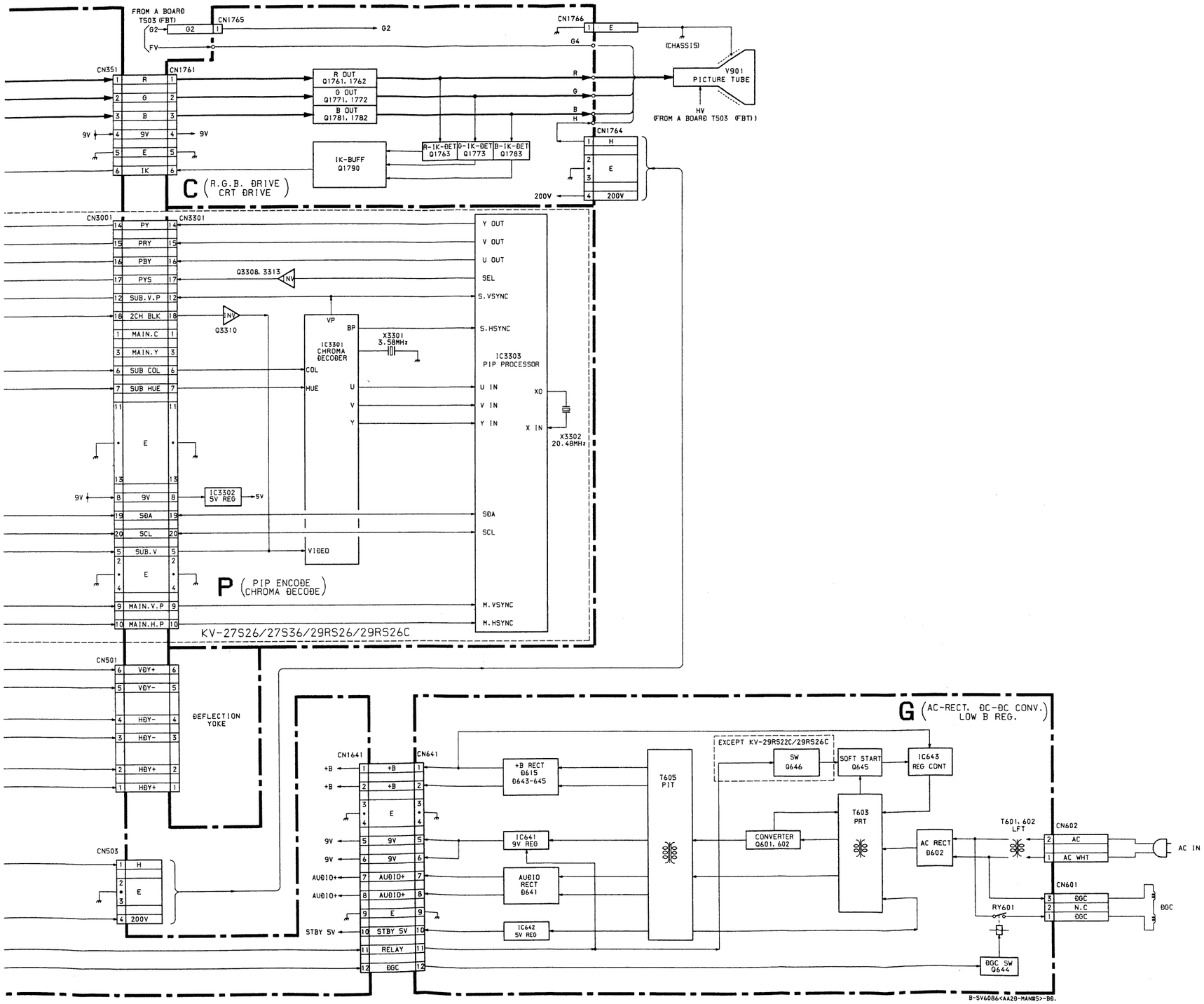
## NOTES:

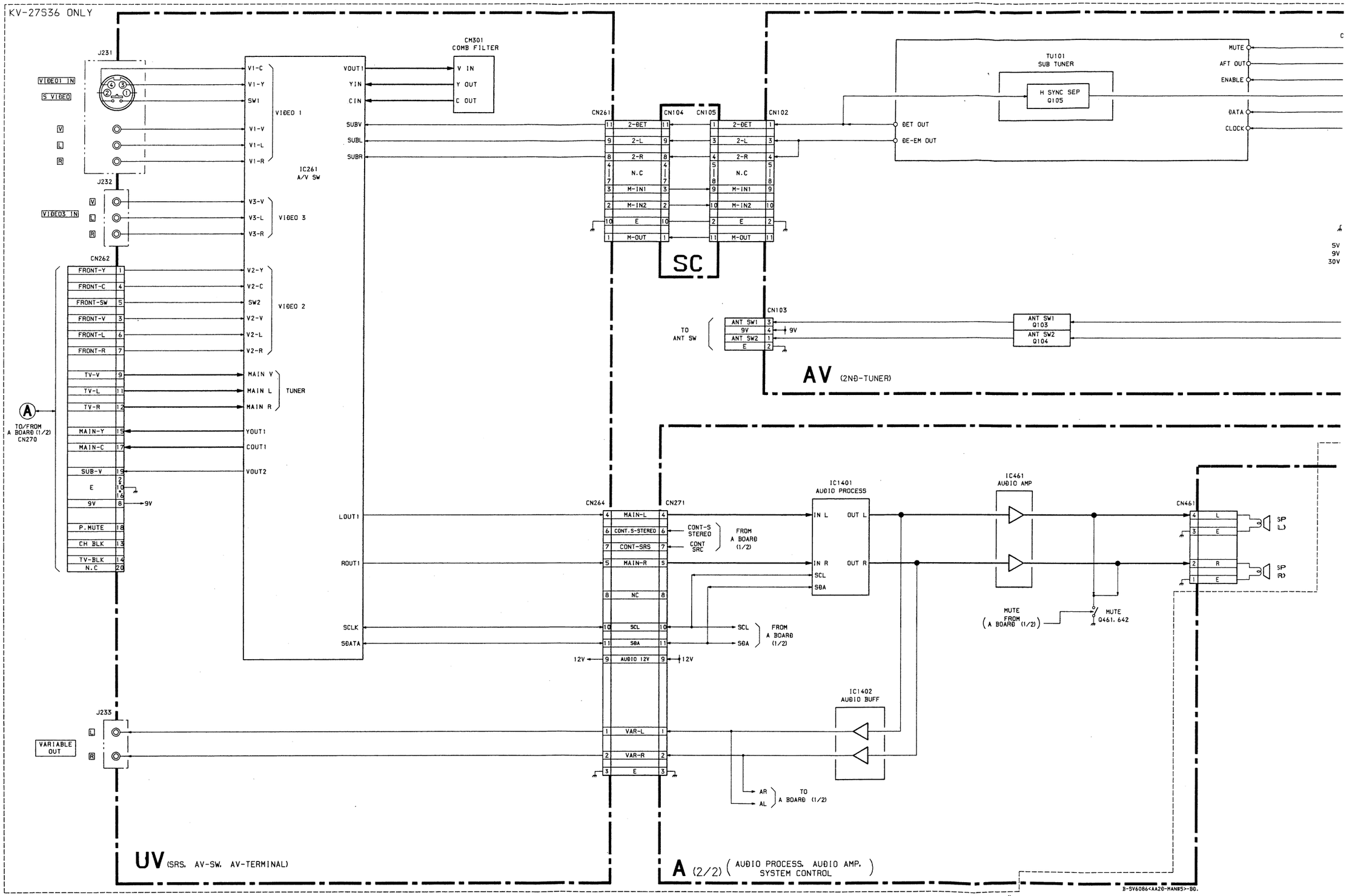
NOTES:

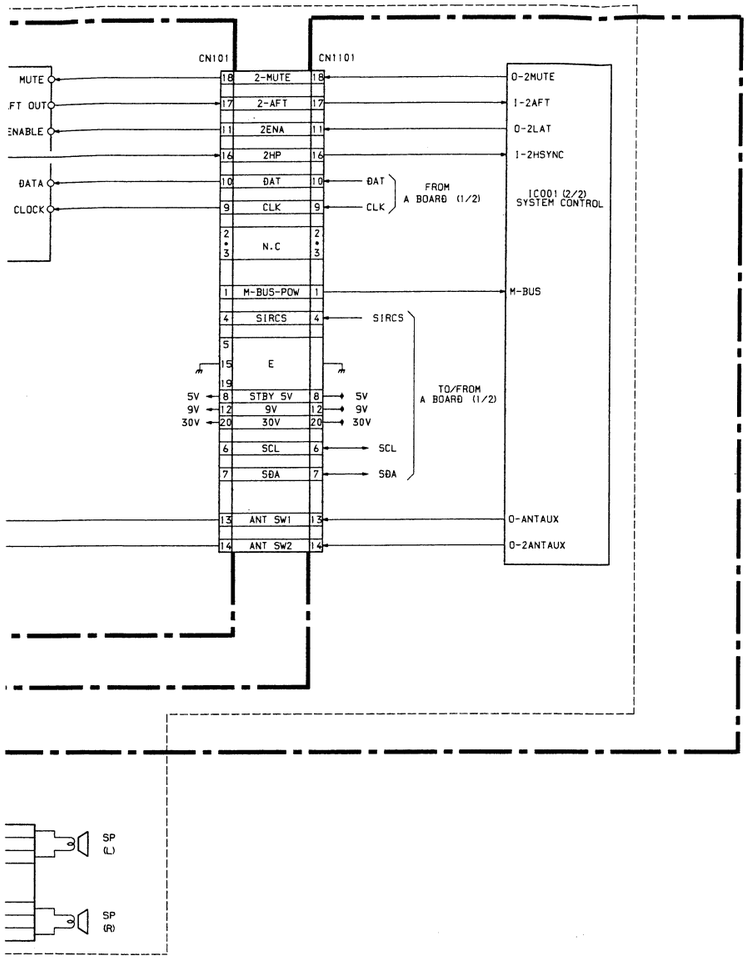
# SECTION 4
# DIAGRAMS

## 4-1. BLOCK DIAGRAM




FROM A BOARD
TS03 (FBT)
G2
FV
CN1765
CN1766
E
G4
(CHASSIS)
V901
PICTURE TUBE
HV
(FROM A BOARD TS03 (FBT))
CN351
CN1761
R
G
B
9V
E
IK
R OUT Q1761, 1762
G OUT Q1771, 1772
B OUT Q1781, 1782
IK-BUFF Q1790
R-IK-DET Q1763
G-IK-DET Q1773
B-IK-DET Q1783
H
CN1764
200V
C (R.G.B. DRIVE CRT DRIVE)
CN3001
CN3301
PY
PRY
PBY
PYS
SUB.V.P
2CH BLK
MAIN.C
MAIN.Y
SUB COL
SUB HUE
MAIN.V.P
MAIN.H.P
Q3308, 3313
Q3310
IC3301 CHROMA DECODER
VP
BP
COL
HUE
U
V
Y
X3301 3.58MHz
IC3303 PIP PROCESSOR
Y OUT
V OUT
U OUT
SEL
S.VSYNC
S.HSYNC
U IN
V IN
Y IN
XO
X IN
X3302 20.48MHz
IC3302 5V REG
5V
SDA
SCL
VIDEO
M.VSYNC
M.HSYNC
P (PIP ENCODE CHROMA DECODE)
KV-27S26/27S36/29RS26/29RS26C
CN501
VDY+
VDY-
HDY-
HDY+
DEFLECTION YOKE
CN503
CN1641
CN641
+B
STBY 5V
AUDIO+
RELAY
DGC
+B RECT D615 D643-645
IC641 9V REG
AUDIO RECT D641
IC642 5V REG
T605 PIT
EXCEPT KV-29RS22C/29RS26C
SW Q646
SOFT START Q645
IC643 REG CONT
T603 PRT
CONVERTER Q601, 602
AC RECT D602
T601, 602 LFT
CN602
AC
AC WHT
AC IN
CN601
N.C
RY601
DGC SW Q644
G (AC-RECT, DC-DC CONV. LOW B REG.)
B-SV6086<AA2B-MAN85>-B0.


KV-27S36 ONLY
J231
VIDEO1 IN
S VIDEO
V
L
R
J232
VIDEO3 IN
CN262
FRONT-Y
FRONT-C
FRONT-SW
FRONT-V
FRONT-L
FRONT-R
TV-V
TV-L
TV-R
MAIN-Y
MAIN-C
SUB-V
E
9V
P.MUTE
CH BLK
TV-BLK
N.C
TO/FROM A BOARD (1/2) CN270
V1-C
V1-Y
SW1
V1-V
V1-L
V1-R
VIDEO 1
V3-V
V3-L
V3-R
VIDEO 3
V2-Y
V2-C
SW2
V2-V
V2-L
V2-R
VIDEO 2
MAIN V
MAIN L
MAIN R
TUNER
YOUT1
COUT1
VOUT2
IC261 A/V SW
VOUT1
YIN
CIN
SUBV
SUBL
SUBR
CM301 COMB FILTER
V IN
Y OUT
C OUT
LOUT1
ROUT1
SCLK
SDATA
12V
CN264
MAIN-L
CONT.S-STEREO
CONT-SRS
MAIN-R
NC
SCL
SDA
AUDIO 12V
CN271
CONT-S STEREO
CONT SRC
FROM A BOARD (1/2)
SCL
SDA
FROM A BOARD (1/2)
12V
J233
VARIABLE OUT
VAR-L
VAR-R
E
UV (SRS, AV-SW, AV-TERMINAL)
CN261
CN104
CN105
CN102
2-BET
2-L
2-R
N.C
M-IN1
M-IN2
E
M-OUT
SC
BET OUT
BE-EM OUT
TU101 SUB TUNER
H SYNC SEP Q105
MUTE
AFT OUT
ENABLE
DATA
CLOCK
5V
9V
30V
CN103
TO ANT SW
ANT SW1
9V
ANT SW2
E
ANT SW1 Q103
ANT SW2 Q104
AV (2ND-TUNER)
IC1401 AUDIO PROCESS
IN L
OUT L
IN R
OUT R
SCL
SDA
AR
AL
TO A BOARD (1/2)
IC1402 AUDIO BUFF
IC461 AUDIO AMP
MUTE FROM (A BOARD (1/2))
MUTE Q461, 642
CN461
L
E
R
E
SP (L)
SP (R)
A (2/2) ( AUDIO PROCESS, AUDIO AMP, SYSTEM CONTROL )
B-SV6086<AA20-MAN85>-BD.

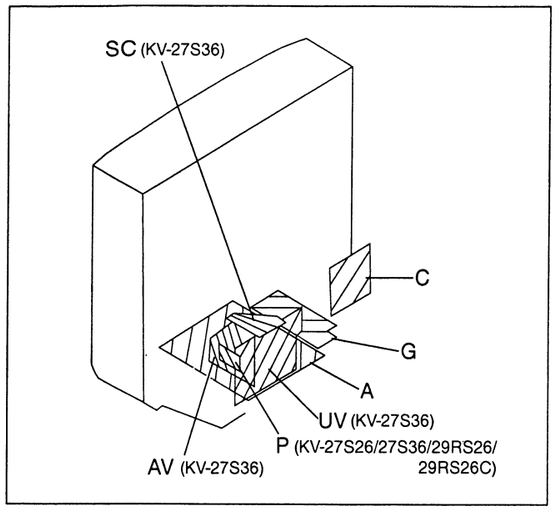







# SECTION 4
# DIAGRAMS

## 4-2. CIRCUIT BOARDS LOCATION




## 4-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.
  kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  | Pitch : 5mm |
  |---|
  | Rating electrical power : 1/4 W |

- 1/4 W in resistance, 1/10 W and 1/8 W in chip resistance.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved.
  (Refer to R530 and R531 adjustment on Page 14 – 15.)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced(◪) | Adjustment(⊠) |
|---|---|
| IC351,IC501, D519, D520, D521<br>C531,C532,R387,R529,R530, R531,<br>R532,R333,R550,T503.....A BOARD<br>IC643,R661.....G BOARD | R530,R531 |

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are DC with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  S : Measurement impossibility.
- : B+line.
- : B-line.
  (Actual measured value may be different).
- : signal path. (RF)
- Circled numbers are waveform references.

Reference information

| | | |
|---|---|---|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : ※ | ADJUSTMENT RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

Note:

The symbol display is on the component side.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse.
Replace only with fuse of same rating as marked.

Note:

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

## P BOARD IC VOLTAGE LIST

| IC3301 | |
|---|---|
| pin | volt |
| 1 | GND |
| 2 | NC |
| 3 | GND |
| 4 | 4.0 |
| 5 | 6.8 |
| 6 | GND |
| 7 | 0.2 |
| 8 | 0 |
| 9 | 1.8 |
| 10 | 0.3 |
| 11 | 8.2 |
| 12 | 8.2 |
| 13 | 3.9 |
| 14 | 3.4 |
| 15 | GND |
| 16 | 2.8 |
| 17 | NC |
| 18 | 2.5 |
| 19 | 3.5 |
| 20 | 3.0 |
| 21 | 3.0 |
| 22 | 4.7 |
| 23 | GND |
| 24 | 2.9 |
| **IC3302** | |
| pin | volt |
| IN | 9.1 |
| OUT | 5.3 |
| **IC3303** | |
| pin | volt |
| 1 | GND |
| 2 | 3.2 |
| 3 | 2.6 |
| 4 | 2.3 |
| 5 | 5.1 |
| 6 | GND |
| 7 | 0.5 |
| 8 | 0 |
| 9 | 0.6 |
| 10 | 5.2 |
| 11 | 2.1 |
| 12 | 0.3 |
| 13 | NC |
| 14 | -3.0 |
| 15 | GND |
| 16 | GND |
| 17 | 0.7 |
| 18 | 0.5 |
| 19 | 0.2 |
| 20 | 0.3 |
| 21 | 5.1 |
| 22 | 5.2 |
| 23 | NC |
| 24 | NC |
| 25 | GND |
| 26 | NC |
| 27 | GND |
| 28 | 2.3 |
| 29 | 5.2 |
| 30 | 2.6 |
| 31 | 4.2 |
| 32 | 2.5 |

All voltages are in V

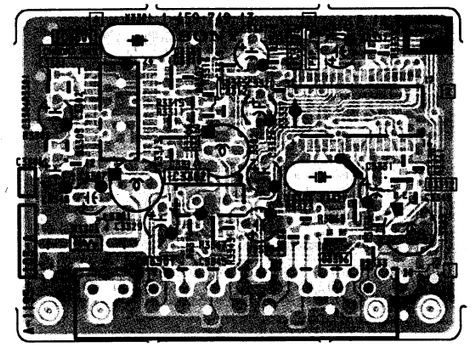
## P BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q3301 | 5.3 | 9.1 | 4.7 |
| Q3305 | 0.5 | GND | 1.2 |
| Q3306 | 0.8 | GND | 1.4 |
| Q3307 | 0.6 | GND | 1.3 |
| Q3308 | 0 | 2.8 | GND |
| Q3310 | 0 | 5.2 | GND |
| Q3312 | 0 | 0 | 0.8 |
| Q3313 | 0.8 | 0.4 | GND |

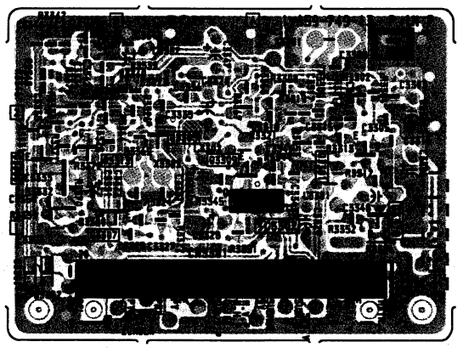
All voltages are in V

**P** [P in P]
(KV-27S26/27S36/29RS26/29RS26C)

**< COMPONENT SIDE>**

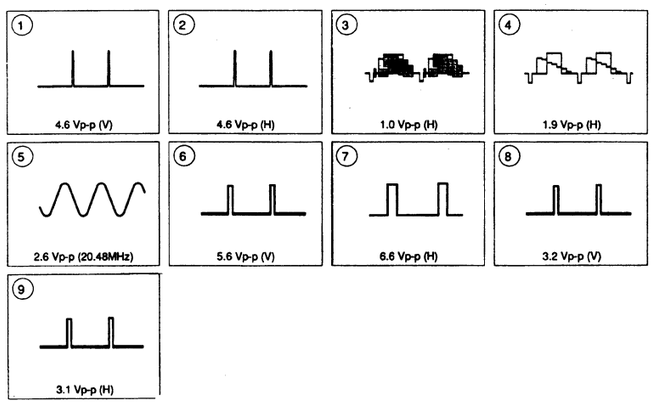


**<CONDUCTOR SIDE>**

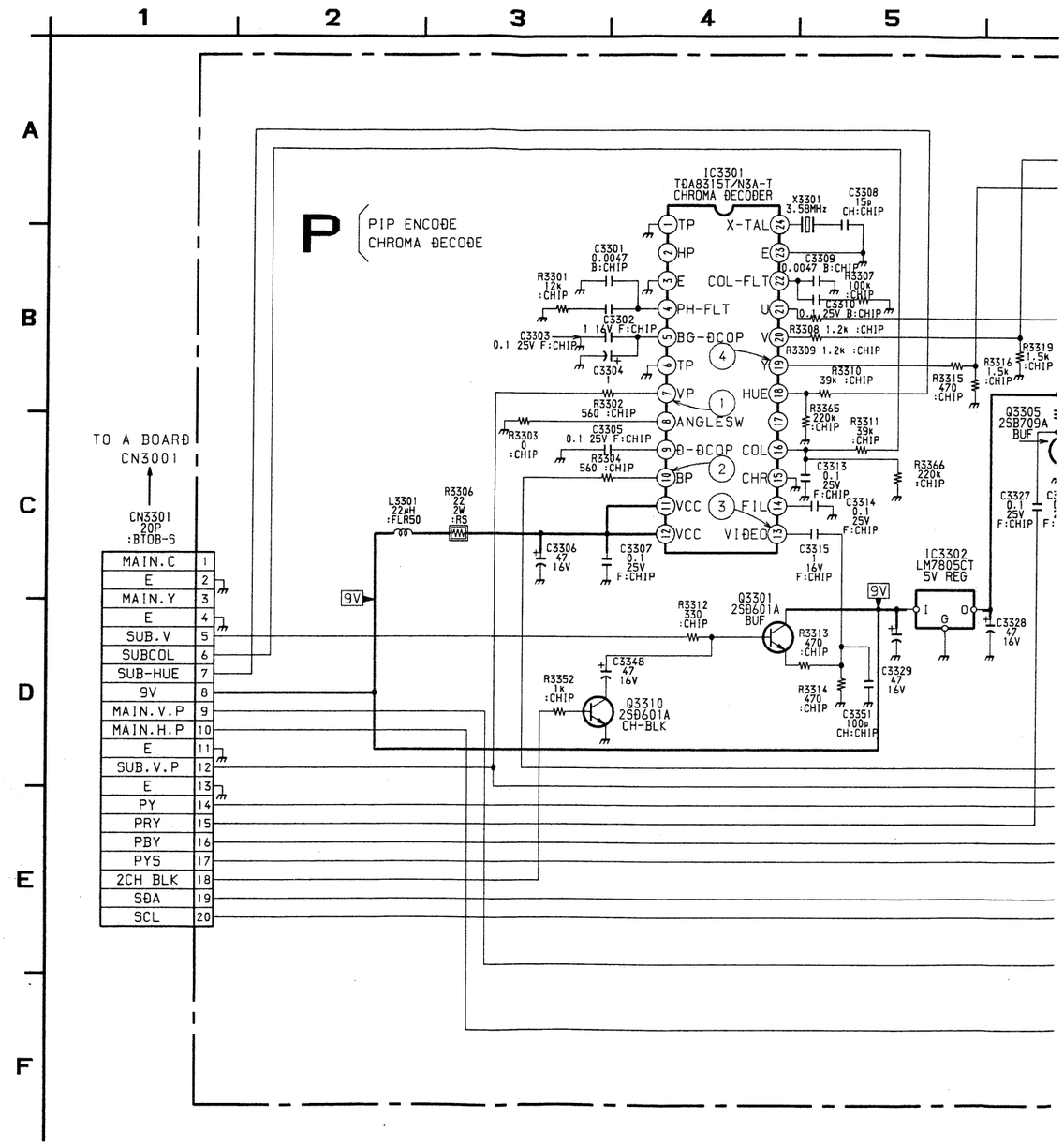


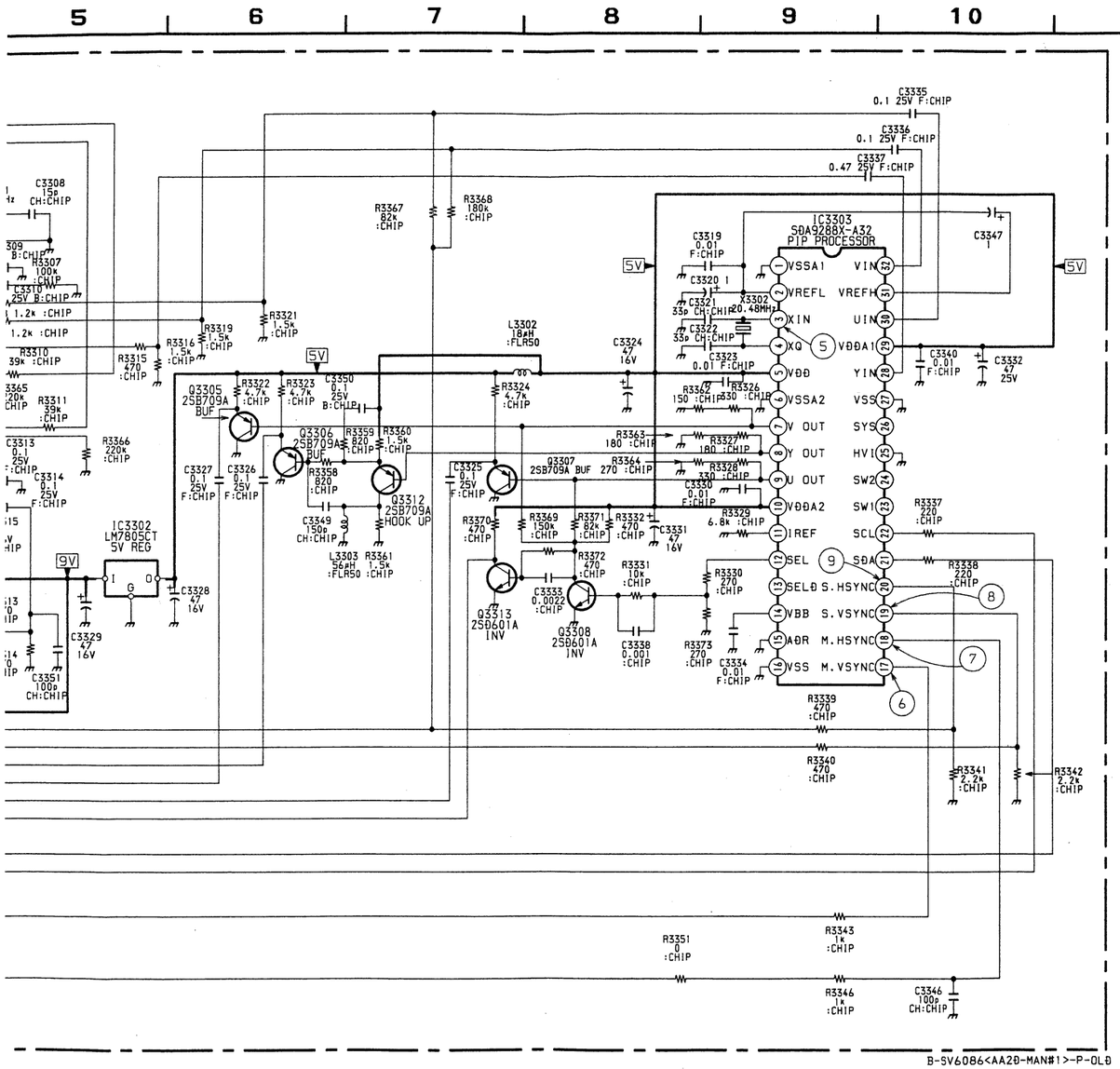
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

## P BOARD WAVEFORMS

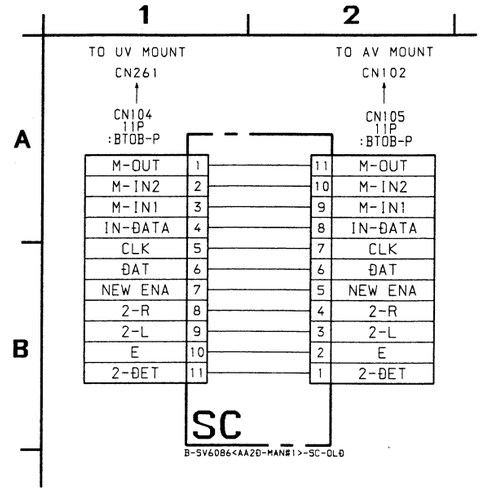




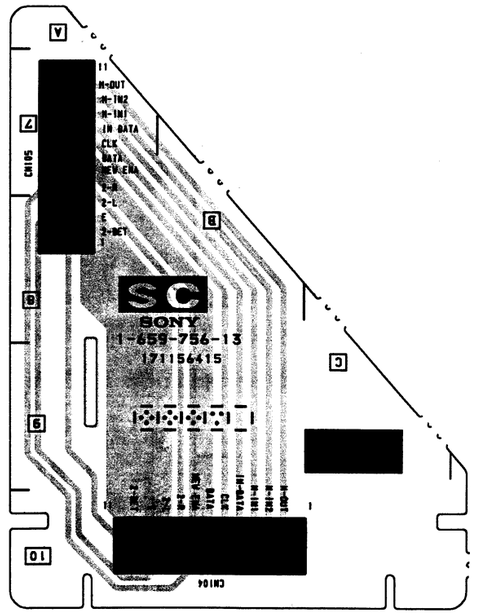





**SC** (KV-27S36 ONLY)

**— SC BOARD —**

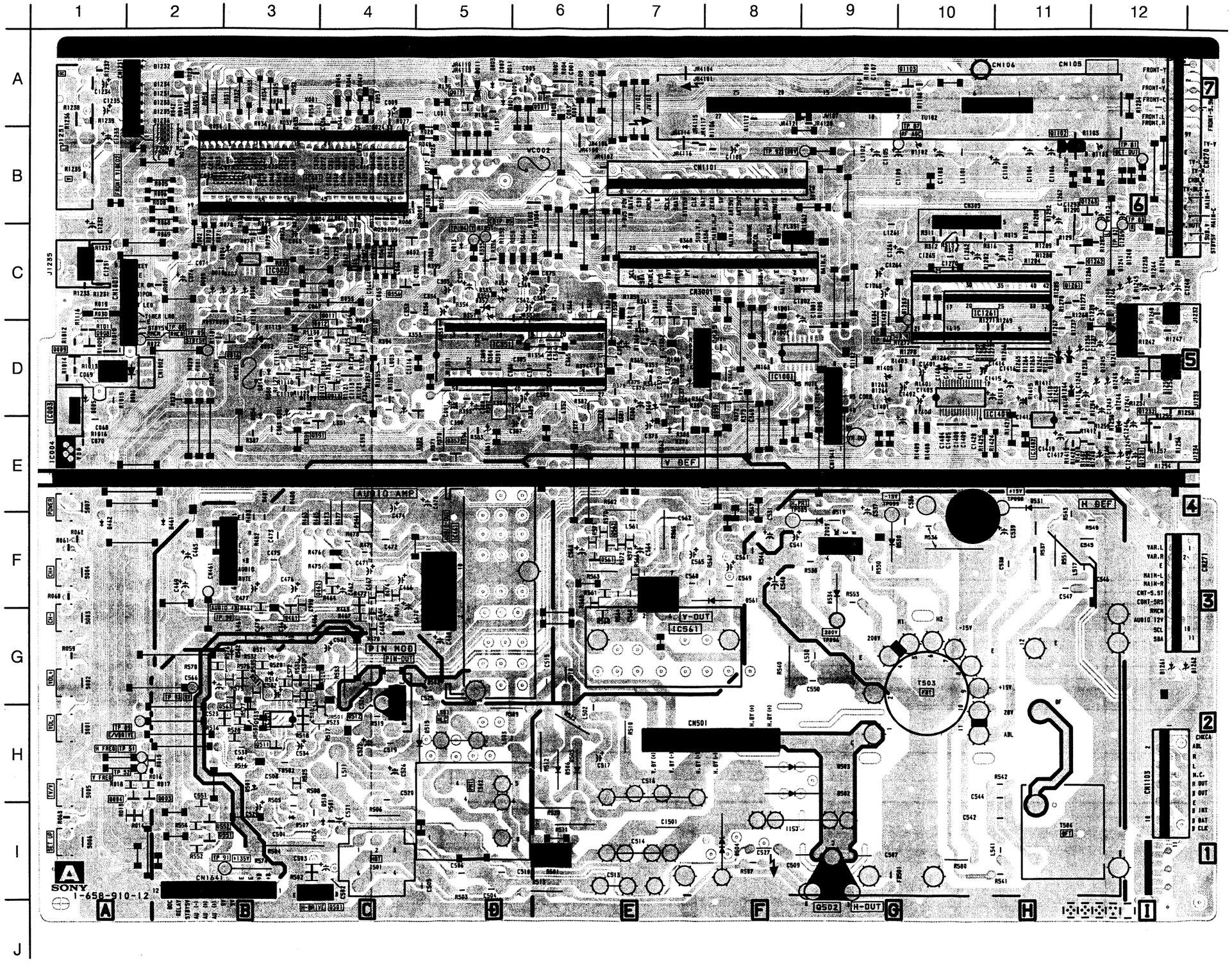


**A** [MICON, Y/C/J, TUNER, VOL-CTL, AUDIO-AMP, PIN-MOD, V.DEF, H.DEF, AV-SW ]

## A BOARD LOCATOR LIST

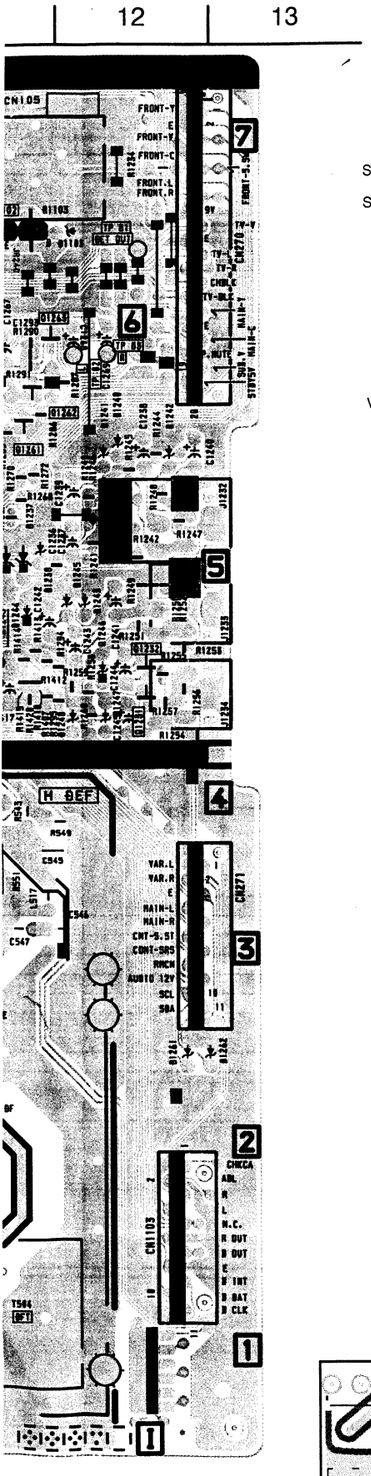
| DIODE | | IC003 | D-1 |
|---|---|---|---|
| D001 | A-5 | IC351 | D-5 |
| D002 | D-3 | IC461 | F-5 |
| D003 | A-5 | IC501 | H-3 |
| D004 | C-2 | IC561 | G-7 |
| D005 | D-1 | IC1001 | D-8 |
| D006 | D-1 | IC1401 | D-10 |
| D011 | A-5 | IC1402 | E-11 |
| D013 | C-5 | TRANSISTOR | |
| D014 | D-3 | Q001 | A-5 |
| D015 | C-4 | Q002 | C-4 |
| D353 | D-7 | Q003 | H-2 |
| D356 | E-3 | Q004 | H-1 |
| D360 | E-7 | Q010 | D-4 |
| D362 | E-7 | Q011 | D-4 |
| D368 | C-7 | Q012 | D-4 |
| D462 | F-1 | Q013 | D-4 |
| D501 | H-3 | Q014 | D-3 |
| D502 | H-9 | Q015 | D-3 |
| D503 | H-9 | Q016 | D-3 |
| D504 | I-8 | Q017 | A-5 |
| D505 | H-6 | Q301 | C-7 |
| D506 | H-6 | Q302 | C-7 |
| D507 | I-3 | Q303 | C-7 |
| D515 | H-5 | Q354 | D-7 |
| D516 | H-3 | Q356 | C-4 |
| D518 | I-4 | Q357 | E-5 |
| D519 | F-9 | Q358 | D-8 |
| D520 | G-3 | Q461 | G-3 |
| D521 | G-3 | Q462 | F-3 |
| D530 | F-9 | Q501 | J-4 |
| D531 | E-11 | Q502 | J-9 |
| D534 | F-9 | Q511 | H-3 |
| D561 | F-8 | Q512 | H-4 |
| D562 | G-3 | D551 | I-2 |
| D1102 | B-10 | D552 | I-2 |
| D1103 | B-12 | Q561 | F-6 |
| D1247 | E-12 | Q562 | F-6 |
| D1248 | E-12 | Q563 | H-2 |
| D1261 | G-12 | Q1102 | A-11 |
| D1262 | G-12 | Q1103 | A-10 |
| D1263 | D-9 | Q1231 | E-12 |
| D1264 | E-9 | Q1232 | E-12 |
| IC | | Q1261 | C-11 |
| IC001 | B-4 | Q1262 | C-11 |
| IC002 | C-3 | Q1263 | B-11 |

— A BOARD —

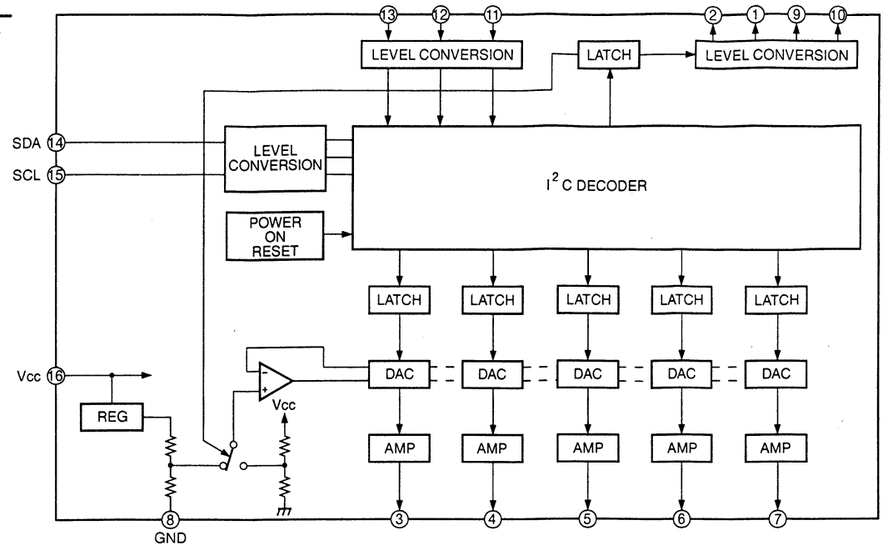



Schematic diagrams

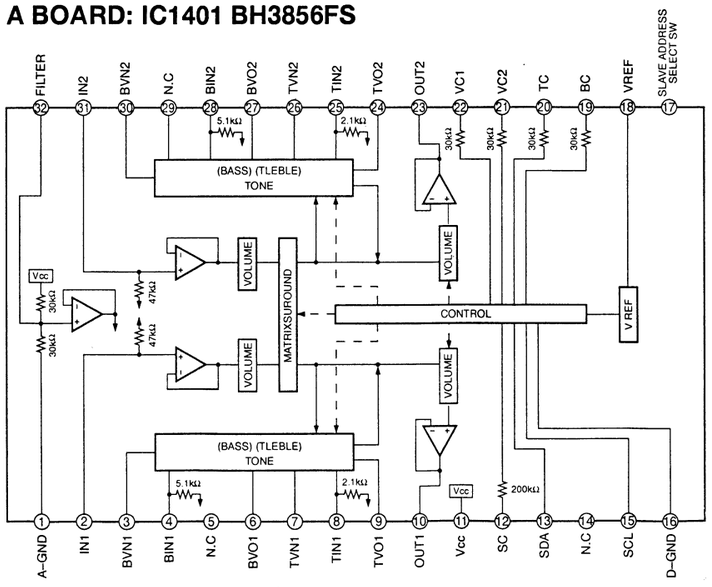
← P SC boards A board →



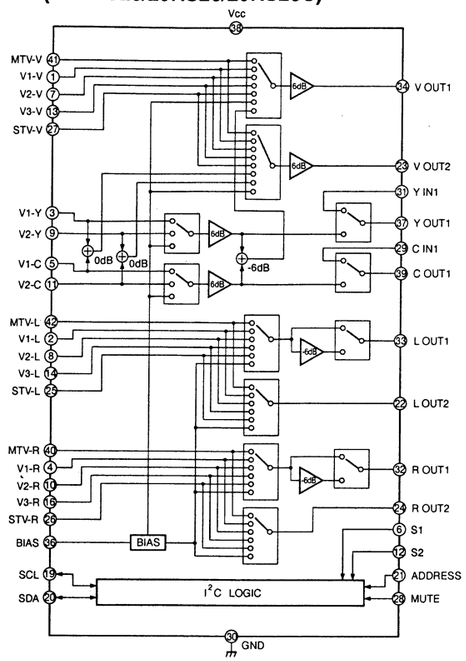

## A BOARD: IC1001 CXA1315M



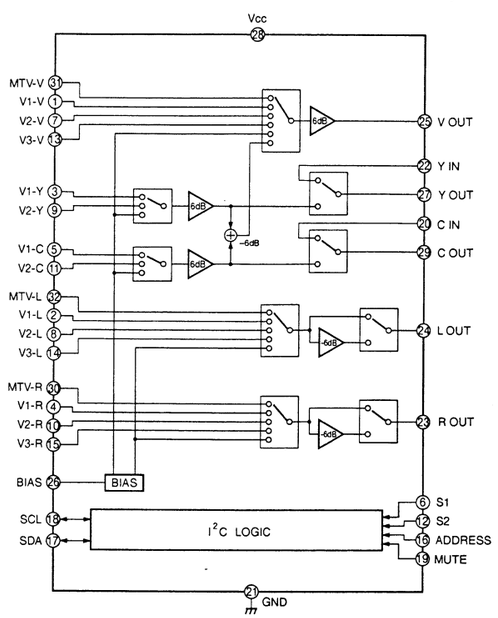

## A BOARD: IC1401 BH3856FS



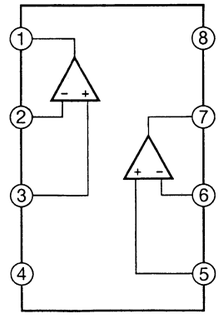

## A BOARD IC1261 MM1313AD (KV-27S26/29RS26/29RS26C)



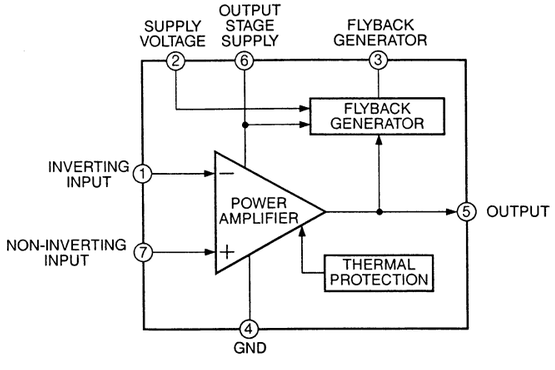

## A BOARD IC1261 MM1311AD (KV-27S22/29RS22/29RS22C/29SD2/29PS2)



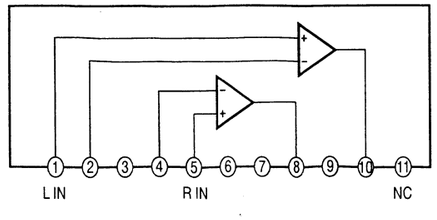

## A BOARD: IC1402 NJM4558M

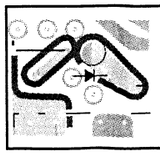


## A BOARD: IC561 TDA 8172

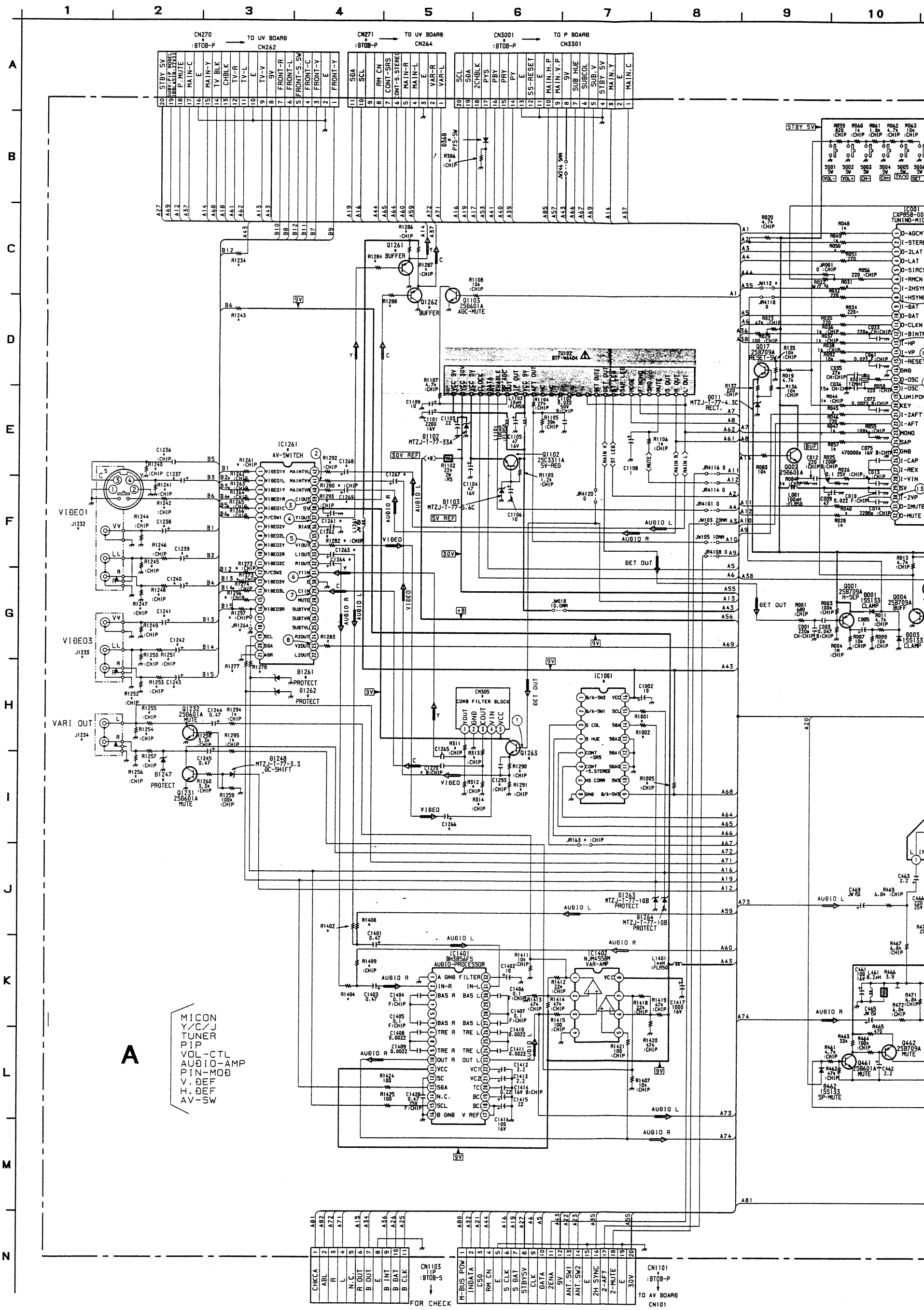


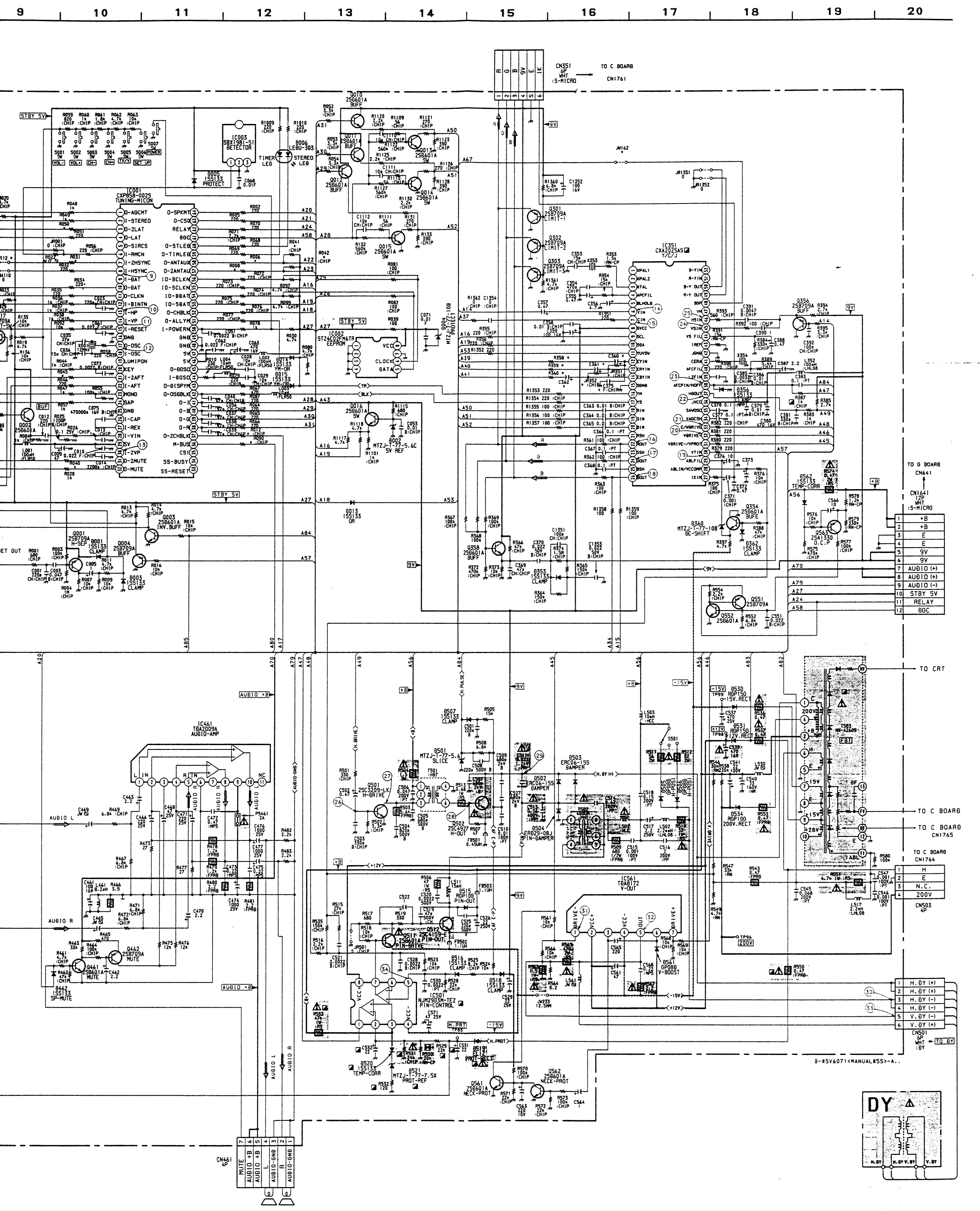

## A BOARD: IC461 TDA2009A

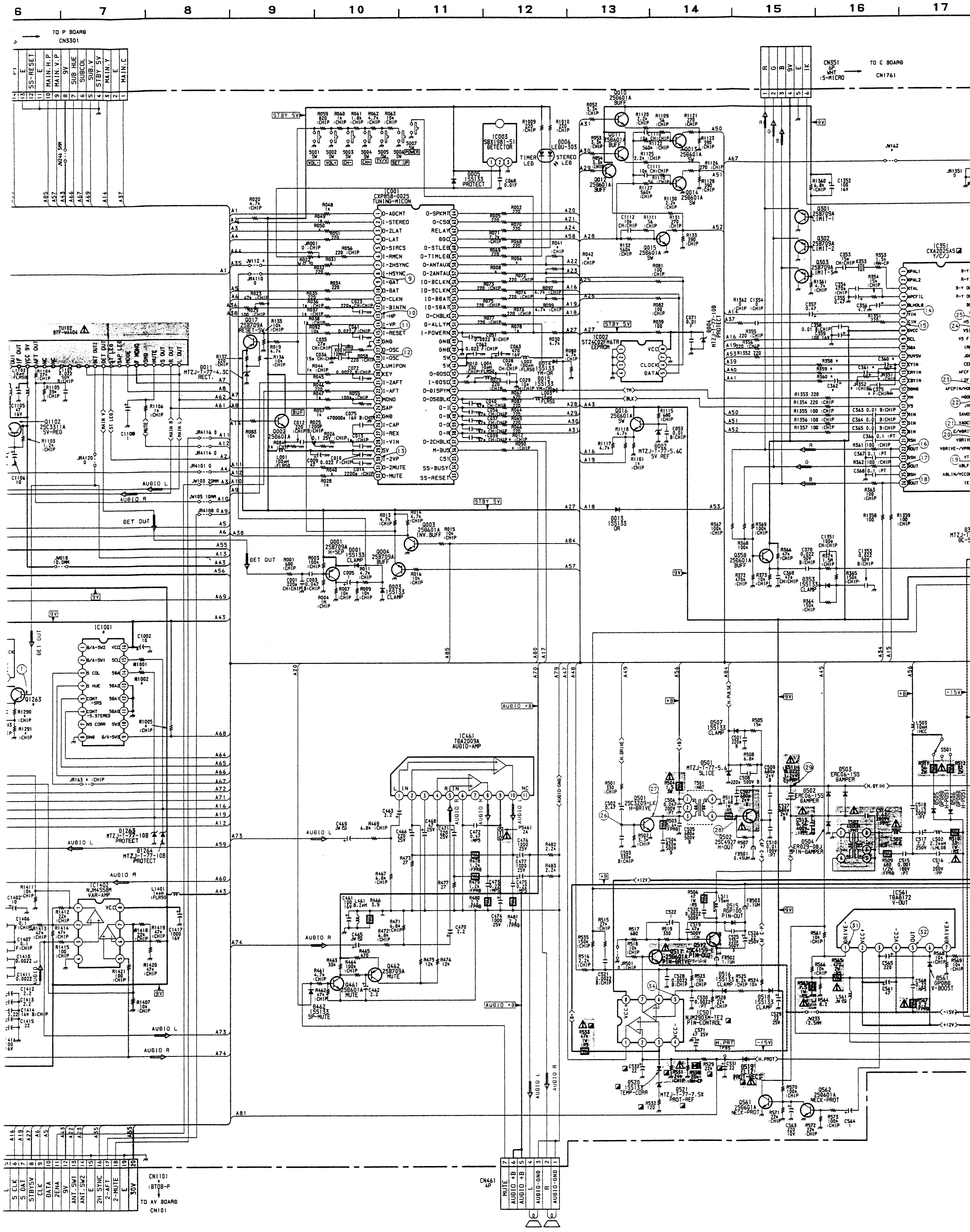


**NOTE:**
**Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.**


CN270 :BTOB-P → TO UV BOARD CN262
CN271 :BTOB-P → TO UV BOARD CN264
CN3001 :BTOB-P → TO P BOARD CN3301
STBY 5V
SUB:PIP MODEL
PBB,ASTR:27V22
P.MUTE
MAIN-C
MAIN-Y
TV BLK
CHBLK
TV-R
TV-L
TV-V
9V
FRONT-R
FRONT-L
FRONT-S.SW
FRONT-C
FRONT-Y
SDA
SCL
RM CN
CONT-SRS
CONT-S.STEREO
MAIN-R
MAIN-L
VAR-R
VAR-L
2CHBLK
PYS
PBY
PRY
PY
SS-RESET
MAIN.H.P
MAIN.V.P
SUB HUE
SUBCOL
SUB.V
MAIN.Y
MAIN.C
D368 PYS-SW
R386 :CHIP
JW246 5MM
VIDEO1
J1232
VIDEO3
J1233
VARI OUT
J1234
IC1261 AV-SWITCH
VIDEO1V MAINTVL
VIDEO1L MAINTVY
VIDEO1Y MAINTVR
VIDEO1R C1OUT
VIDEO1C 9V
Y/CSW1 Y1OUT
VIDEO2V BIAS
VIDEO2L V1OUT
VIDEO2Y L1OUT
VIDEO2R R1OUT
VIDEO2C Y1IN
Y/CSW2 C1IN
VIDEO3V MUTE
VIDEO3L SUBTVY
VIDEO3R SUBTVR
SCL SUBTVL
SDA R2OUT
XOR V2OUT
L2OUT
Q1261 BUFFER
Q1262 BUFFER
Q1103 2SD601A AGC-MUTE
TU102 BTF-WA404
Q1102 2SC3311A 5V-REG
D1102 MTZJ-T-77-33A
D1103 MTZJ-T-77-5.6C
30V REF
5V REF
AUDIO R
AUDIO L
VIDEO
30V
9V
+B
DET OUT
D1261 PROTECT
D1262 PROTECT
D1247 PROTECT
D1248 MTZJ-T-77-3.3 DC-SHIFT
Q1232 2SD601A MUTE
Q1231 2SD601A MUTE
CM305 COMB FILTER BLOCK
YOUT GND COUT VIN VCC
IC1001
B/A-SW2 B/A-SW1 S COL S HUE CONT -SRS CONT -S.STEREO XS CORR GND VCC SCL SDA SDA2 SDA1 SDA0 B/A-SW3
Q017 2SB709A RESET-5V
Q011 MTZJ-T-77-4.3C RECT.
Q001 2SB709A H-SEP
Q003 2SB709A BUFF
Q002 2SD601A BUF
D001 1SS133 CLAMP
D003 1SS133 CLAMP
D462 1SS133 SP-MUTE
Q461 2SD601A MUTE
Q462 2SB709A MUTE
IC1401 BH3856FS AUDIO-PROCESSOR
A GND FILTER
IN-R IN-L
BAS R BAS L
TRE R TRE L
OUT R OUT L
VCC VC1 VC2 TC BC
SC SDA SCL GND V REF
N.C.
IC1402 NJM4558M VAR-AMP
D1263 MTZJ-T-77-10B PROTECT
D1264 MTZJ-T-77-10B PROTECT
MICON
Y/C/J
TUNER
PIP
VOL-CTL
AUDIO-AMP
PIN-MOD
V.DEF
H.DEF
AV-SW
A
CN1103 :PIP :BTOB-S FOR CHECK
CHKCA ABL R L N.C. R OUT B OUT E B INT B DAT B CLK
CN1101 :BTOB-P TO AV BOARD CN101
M-BUS POW INDATA CSO RM CN E S CLK S DAT STBYSV CLK DATA 2ENA 9V ANT.SW1 ANT.SW2 E 2H SYNC 2-AFT 2-MUTE E 30V


9
10
11
12
13
14
15
16
17
18
19
20
STBY 5V
IC003 SBX1981-51 DETECTOR
TIMER LED
STEREO LED
IC001 CXP858-002S TUNING-MICON
IC002 ST24C02FM6TR EEPROM
MTZJ-T-77-5.6C 5V REF
CN351 6P WHT :S-MICRO
TO C BOARD CN1761
9V
IC351 CXA2025AS Y/C/J
TO G BOARD CN641
CN1641 12P WHT :S-MICRO
+B
E
5V
AUDIO (+)
AUDIO (-)
STBY 5V
RELAY
AGC
IC461 TDA2009A AUDIO-AMP
AUDIO +B
AUDIO L
AUDIO R
AUDIO-GND
CN461 4P
MUTE
H-DRIVE
H-OUT
H-BOOST
V-OUT
V-BOOST
TO CRT
TO C BOARD CN1765
TO C BOARD CN1764
CN503 4P
H
E
N.C.
200V
CN501 6P WHT :DY
TO DY
DY
H. DY
V. DY


6
7
8
9
10
11
12
13
14
15
16
17
TO P BOARD
CN3301
CN351
6P
WHT
:S-MICRO
TO C BOARD
CN1761
STBY 5V
IC003
SBX1981-51
DETECTOR
TIMER LED
STEREO LED
IC001
CXP858-002S
TUNING-MICON
IC002
ST24C02FM6TR
EEPROM
IC461
TDA2009A
AUDIO-AMP
IC1402
NJM4558M
VAR-AMP
IC1001
IC351
CXA2025AS
Y/C/J
IC561
T0A8172
V-OUT
IC501
NJM2903M-TE2
PIN-CONTROL
TU102
BTF-WA404
Q017
2SB709A
RESET-SW
Q011
MTZJ-T-77-4.3C
RECT.
Q1102
2SC3311A
5V-REG
Q1263
Q1264
MTZJ-T-77-10B
PROTECT
Q010
2SB601A
BUFF
Q011
2SB601A
BUFF
Q012
2SB601A
BUFF
Q013
2SB601A
SW
Q014
2SB601A
SW
Q015
2SB601A
SW
Q016
2SB601A
SW
Q017
2SB601A
SW
Q001
2SB709A
H-SEP
Q002
2SB601A
BUFF
Q003
2SB601A
INV.BUFF
Q004
2SB709A
BUFF
Q301
2SB709A
LIMIT-1
Q302
2SB709A
LIMIT-2
Q303
2SB709A
LIMIT-3
Q358
2SB601A
BUFF
Q461
2SB601A
MUTE
Q462
2SB709A
MUTE
Q501
2SC3209-LK
H-DRIVE
Q502
2SC4927
H-OUT
Q511
2SC4159-E
PIN-OUT
Q512
2SB601A
PIN-DRIVE
Q561
2SB601A
NECK-PROT
Q562
2SB601A
NECK-PROT
D0002
1SS133
PROTECT
D0003
1SS133
CLAMP
D0004
MTZJ-T-77-10B
PROTECT
D0005
1SS133
PROTECT
D0006
LEDU-303
D0007
1SS133
PROTECT
D0008
1SS133
PROTECT
D0009
1SS133
PROTECT
D0010
1SS133
PROTECT
D0011
1SS133
PROTECT
D0012
1SS133
PROTECT
D0013
1SS133
OR
D0014
1SS133
YM-OR
D0015
1SS133
YM-OR
D0462
1SS133
SP-MUTE
D0501
MTZJ-T-77-5.6
SLICE
D0502
ERC06-15S
DAMPER
D0503
ERC06-15S
DAMPER
D0504
ER029-08J
PIN-DAMPER
D0505
GP08D
H-POSI
D0506
GP08D
H-POSI
D0507
1SS133
CLAMP
D0511
MTZJ-T-77-5.6
PIN-OUT
D0512
MTZJ-T-77-5.6
PIN-DRIVE
D0515
RGP10G
PIN-OUT
D0516
1SS133
CLAMP
D0517
MTZJ-T-77-5.6C
PROT-DET
D0518
1SS133
CLAMP
D0519
MTZJ-T-77-5.6
PROT-DET
D0520
1SS133
TEMP-CORR
D0521
MTZJ-T-77-7.5X
PROT-REF
D0561
GP08D
V-BOOST
CN1101
:BTOB-P
TO AV BOARD
CN101
CN461
4P
STBY 5V
9V
AUDIO +B
AUDIO L
AUDIO R
DET OUT
BUF
MUTE
H.PRT
H.PROT
-15V
+12V
+B
YM
BLK
R
G
B
SS-SELECT
SS-RESET
MAIN.H.P
MAIN.V.P
SUB HUE
SUBCOL
SUB.V
STBY 5V
MAIN.Y
MAIN.C
VOL-
VOL+
CH-
CH+
TV/V
SET UP
POWER
S001 SW
S002 SW
S003 SW
S004 SW
S005 SW
S006 SW
S007 SW
JW246 5MM
JW112 *
JW103 20MM
JW105 10MM
JW018 10.0MM
JW162
JR1351
JR4116 0
JR4114 0
JR4101 0
JR4108 0
JR4120 0
JR4110 0
JR001 0 :CHIP
JR163 * :CHIP
L1102 10mH :FLR50
L1105 47 16V
L1106 1
L1401 1mH :FLR50
L001 100uH :FLR50
L501 15mH :HCC
L502 2.2mH :LHL08
L503 10mH :HCC
L511 15mH
L541 JW(S)
FB501 0.45UH
FB502 1.1UH
FB503 1.1UH
X351 4.43MHz
X353 3.58MHz
X501 12MHz
S501
S502
S503
S504
S505
S506
S507
S508
S509
S510
S511
S512
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S514
S515
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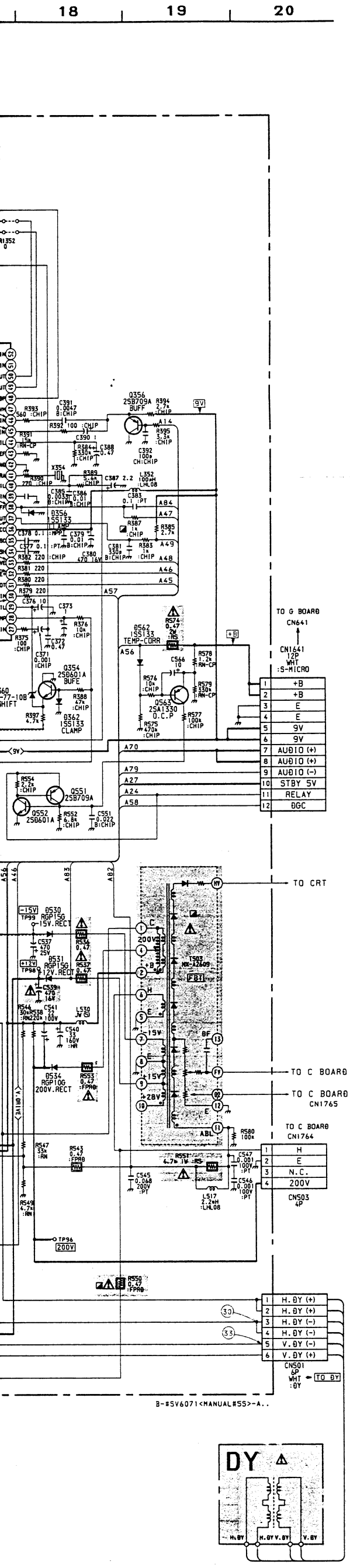
S540




## A BOARD (*) MARK LIST

| | KV-27S22/ 29RS22/ 29RS22C/ 29SD2/ 29PS2 | KV-27S26/ 29RS26/ 29RS26C | KV-27S36 |
|---|---|---|---|
| C360 | # | JW(5) | JW(5) |
| C361 | # | JW(5) | JW(5) |
| C362 | # | JW(5) | JW(5) |
| C375 | 0.1 | # | # |
| C1236 | # | 0.01 | # |
| C1237 | # | 0.047 | # |
| C1238 | 0.047 | 0.047 | # |
| C1239 | 1 | 1 | # |
| C1240 | 1 | 1 | # |
| C1241 | # | 0.047 | # |
| C1242 | # | 1 | # |
| C1243 | # | 1 | # |
| C1261 | 47 16V | 47 16V | # |
| C1262 | 47 16V | 47 16V | # |
| C1263 | 1 | 1 | # |
| C1264 | 1 | 1 | # |
| C1265 | 0.1 | 0.1 | # |
| C1266 | 47 16V | 47 16V | # |
| C1267 | 0.047 | 0.047 | # |
| C1268 | 1 | 1 | # |
| C1269 | 1 | 1 | # |
| C1270 | 0.01 | 0.01 | # |
| C1293 | 100p | 100p | # |
| CM305 | 1-467-548-21 | # | # |
| CN270 | # | # | 20P |
| CN271 | # | # | 11P |
| CN1101 | # | # | 20P |
| CN3001 | # | 20P | 20P |
| D368 | # | 1SS133 | 1SS133 |
| D1247 | MTZJ-T-77-10B | MTZJ-T-77-10B | # |
| D1261 | MTZJ-T-77-10B | MTZJ-T-77-10B | # |
| D1262 | MTZJ-T-77-10B | MTZJ-T-77-10B | # |
| IC1001 | # | CXA1315M | CXA1315M |
| IC1261 | MM1311 | MM1313 | # |
| J1232 | 3P | S3P | # |
| J1233 | # | 3P | # |
| J1234 | 2P | 2P | # |
| JR351 | 0 | # | # |
| JR352 | 0 | # | # |
| JR1264 | 0 | # | # |
| JW112 | # | # | 10MM |
| JW162 | # | 7.5MM | 7.5MM |
| Q1261 | 2SB709A | 2SB709A | # |
| Q1262 | 2SB709A | 2SB709A | # |
| Q1263 | 2SD601A | 2SD601A | # |
| R006 | # | # | 220 |
| R008 | # | # | 220 |
| R012 | # | 220 | 220 |
| R031 | # | # | 220 |
| R040 | # | # | 220 |
| R041 | # | # | 4.7K |
| R042 | # | # | 4.7K |
| R043 | # | # | 1K |
| R045 | # | # | 220 |
| R050 | # | # | 220 |
| R090 | # | # | 220 |
| R311 | 0 | 0 | # |
| R312 | 1K | 1K | # |
| R313 | 0 | 0 | # |
| R314 | 1K | 1K | # |
| R358 | # | 220 | 220 |
| R359 | # | 220 | 220 |
| R360 | # | 220 | 220 |
| R386 | # | 1K | 1K |
| R1001 | # | 100 | 100 |
| R1002 | # | 100 | 100 |
| R1005 | # | 10K | 10K |
| R1234 | 100K | 100K | # |
| R1240 | # | 75 | # |
| R1241 | # | 75 | # |
| R1242 | # | 4.7K | # |
| R1243 | 100K | 100K | # |
| R1244 | 75 | 75 | # |
| R1245 | 470K | 470K | # |
| R1246 | 4.7K | 4.7K | # |
| R1247 | 470K | 470K | # |
| R1248 | 4.7K | 4.7K | # |
| R1249 | # | 75 | # |
| R1250 | # | 470K | # |
| R1251 | # | 4.7K | # |
| R1252 | # | 470K | # |
| R1253 | # | 4.7K | # |
| R1254 | 470K | 470K | # |
| R1255 | 1K | 1K | 0 |
| R1256 | 470K | 470K | # |
| R1257 | 1K | 1K | # |
| R1261 | 220 | 220 | # |
| R1262 | 100 | 100 | # |
| R1263 | # | 220 | # |
| R1264 | 100 | 100 | # |
| R1265 | # | 220 | # |
| R1266 | 100 | 100 | # |
| R1272 | 100 | # | # |
| R1273 | # | 220 | # |
| R1274 | # | 100 | # |
| R1277 | 220 | 220 | # |
| R1278 | 220 | 220 | # |
| R1280 | 100 | 100 | # |
| R1282 | 100 | 100 | # |
| R1283 | # | 22 | # |
| R1284 | 100 | 100 | # |
| R1286 | 1K | 1K | # |
| R1287 | 1K | 1K | # |
| R1288 | 100 | 100 | # |
| R1290 | 470 | 470 | # |
| R1291 | 680 | 680 | # |
| R1292 | 4.7K | 4.7K | # |
| R1293 | 4.7K | 4.7K | # |
| R1296 | 100 | # | # |
| R1297 | # | 100 | # |
| R1402 | 10K | 10K | # |
| R1404 | 10K | 10K | # |
| R1408 | # | # | 10K |
| R1409 | # | # | 10K |

#: Not Mounted

## A BOARD IC VOLTAGE LIST

| IC001 | |
|---|---|
| pin | volt |
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 5.0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0.8 |
| 10 | 0 |
| 11 | 0 |
| 12 | 5.0 |
| 13 | 4.2 |
| 14 | 1.3 |
| 15 | 5.0 |
| 16 | GND |
| 17 | 2.6 |
| 18 | * |
| 19 | 3.1 |
| 20 | 5.0 |
| 21 | 2.0 |
| 22 | 2.0 |
| 23 | 0 |
| 24 | 0 |
| 25 | GND |
| 26 | 0 |
| 27 | 1.6 |
| 28 | 2.4 |
| 29 | 5.0 |
| 30 | 0.2 |
| 31 | 0 |
| 32 | 0 |
| 33 | 0 |
| 34 | 0 |
| 35 | 0 |
| 36 | 0 |
| 37 | 0 |
| 38 | 0 |
| 39 | 0 |
| 40 | 0 |
| 41 | 0 |
| 42 | 0 |
| 43 | 0 |
| 44 | 3.0 |
| 45 | 3.0 |
| 46 | 5.0 |
| 47 | 5.0 |
| 48 | GND |
| 49 | GND |
| 50 | 5.0 |
| 51 | 0 |
| 52 | 0 |

| IC002 | |
|---|---|
| pin | volt |
| 1 | GND |
| 2 | GND |
| 3 | GND |
| 4 | GND |
| 5 | 5.0 |
| 6 | 5.0 |
| 7 | GND |
| 8 | 5.0 |

| IC003 | |
|---|---|
| pin | volt |
| 1 | 5.2 |
| 2 | 5.2 |
| 3 | GND |

| IC351 | |
|---|---|
| pin | volt |
| 1 | NC |
| 2 | NC |
| 3 | 2.2 |
| 4 | 5.9 |
| 5 | 4.1 |
| 6 | 4.6 |
| 7 | 4.3 |
| 8 | 9.2 |
| 9 | 5.2 |
| 10 | 5.2 |
| 11 | 0.3 |
| 12 | 6.6 |
| 13 | 6.3 |
| 14 | 6.3 |
| 15 | GND |
| 16 | 0 |
| 17 | 0 |
| 18 | 5.2 |
| 19 | 5.2 |
| 20 | 5.2 |
| 21 | 4.0 |
| 22 | 2.2 |
| 23 | 5.1 |
| 24 | 1.8 |
| 25 | 4.5 |

| | |
|---|---|
| 26 | 2.3 |
| 27 | 4.7 |
| 28 | 1.7 |
| 29 | 6.8 |
| 30 | 0.7 |
| 31 | 3.1 |
| 32 | 3.2 |
| 33 | 3.7 |
| 34 | 4.5 |
| 35 | 4.8 |
| 36 | 8.7 |
| 37 | 3.4 |
| 38 | 3.6 |
| 39 | 4.1 |
| 40 | 4.3 |
| 41 | 2.5 |
| 42 | GND |
| 43 | 2.8 |
| 44 | 2.8 |
| 45 | 4.1 |
| 46 | 3.3 |
| 47 | 6.0 |
| 48 | 0.4 |
| 49 | 0 |
| 50 | 0 |

| IC461 | |
|---|---|
| pin | volt |
| 1 | 1.5 |
| 2 | 3.5 |
| 3 | 12.2 |
| 4 | 3.5 |
| 5 | 1.5 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0.3 |
| 9 | 22.1 |
| 10 | 0.3 |
| 11 | 0 |

| IC501 | |
|---|---|
| pin | volt |
| 1 | 3.4 |
| 2 | 7.9 |
| 3 | 8.3 |
| 4 | -16.5 |
| 5 | 2.3 |
| 6 | 2.8 |
| 7 | -16.0 |
| 8 | 12.6 |

| IC561 | |
|---|---|
| pin | volt |
| 1 | 1.6 |
| 2 | 12.6 |
| 3 | -14.5 |
| 4 | -16.6 |

| | |
|---|---|
| 5 | 0.0 |
| 6 | 13.4 |
| 7 | 1.6 |

| IC1001 | |
|---|---|
| pin | volt |
| 1 | 0.0 |
| 2 | 0.0 |
| 3 | 3.2 |
| 4 | 2.8 |
| 5 | 0.5 |
| 6 | 0.6 |
| 7 | 3.8 |
| 8 | GND |
| 9 | 0 |
| 10 | 0 |
| 11 | GND |
| 12 | GND |
| 13 | GND |
| 14 | 5.0 |
| 15 | 5.0 |
| 16 | 8.7 |

| IC1261 | |
|---|---|
| pin | volt |
| 1 | 5.1 |
| 2 | 4.4 |
| 3 | 5.1 |
| 4 | 4.4 |
| 5 | 5.0 |
| 6 | 4.5 |
| 7 | 6.2 |
| 8 | 4.4 |
| 9 | 6.0 |
| 10 | 4.4 |
| 11 | 5.1 |
| 12 | 0.3 |
| 13 | 5.1 |
| 14 | 4.4 |
| 15 | 0 |
| 16 | 4.4 |
| 17 | 0 |
| 18 | 0 |
| 19 | 5.2 |
| 20 | 5.2 |
| 21 | 0 |
| 22 | 4.4 |
| 23 | 5.2 |
| 24 | 4.4 |
| 25 | 4.4 |
| 26 | 4.4 |
| 27 | 6.5 |
| 28 | 0.3 |
| 29 | 5.0 |
| 30 | GND |
| 31 | 5.8 |

| | |
|---|---|
| 32 | 4.4 |
| 33 | 4.4 |
| 34 | 5.3 |
| 35 | 0.0 |
| 36 | 4.5 |
| 37 | 4.5 |
| 38 | 9.2 |
| 39 | 3.6 |
| 40 | 4.4 |
| 41 | 5.4 |
| 42 | 4.4 |

| IC1401 | |
|---|---|
| pin | volt |
| 1 | GND |
| 2 | 4.3 |
| 3 | 4.3 |
| 4 | 4.3 |
| 5 | 0 |
| 6 | 4.3 |
| 7 | 4.3 |
| 8 | 4.4 |
| 9 | 4.4 |
| 10 | 4.4 |
| 11 | 8.7 |
| 12 | 3.8 |
| 13 | 4.9 |
| 14 | 0 |
| 15 | 5.0 |
| 16 | 0 |
| 17 | 4.0 |
| 18 | 4.0 |
| 19 | 2.0 |
| 20 | 2.0 |
| 21 | 0 |
| 22 | 0 |
| 23 | 4.3 |
| 24 | 4.3 |
| 25 | 4.3 |
| 26 | 4.3 |
| 27 | 4.3 |
| 28 | 4.3 |
| 29 | 0 |
| 30 | 4.3 |
| 31 | 4.3 |
| 32 | 5.6 |

| IC1402 | |
|---|---|
| pin | volt |
| 1 | 4.2 |
| 2 | 4.3 |
| 3 | 4.3 |
| 4 | GND |
| 5 | 4.3 |
| 6 | 4.3 |
| 7 | 4.3 |
| 8 | 8.7 |

All voltages are in V

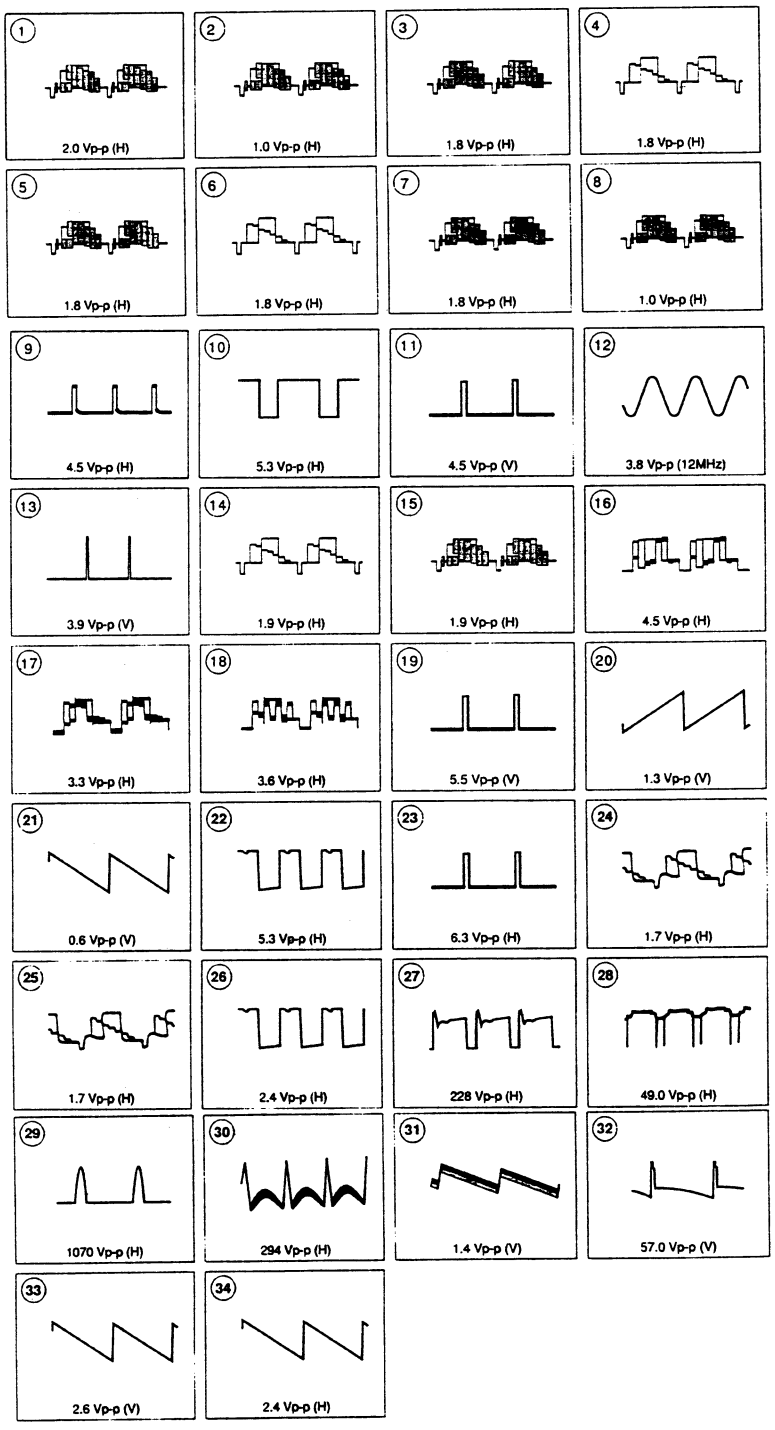
Cannot be measured

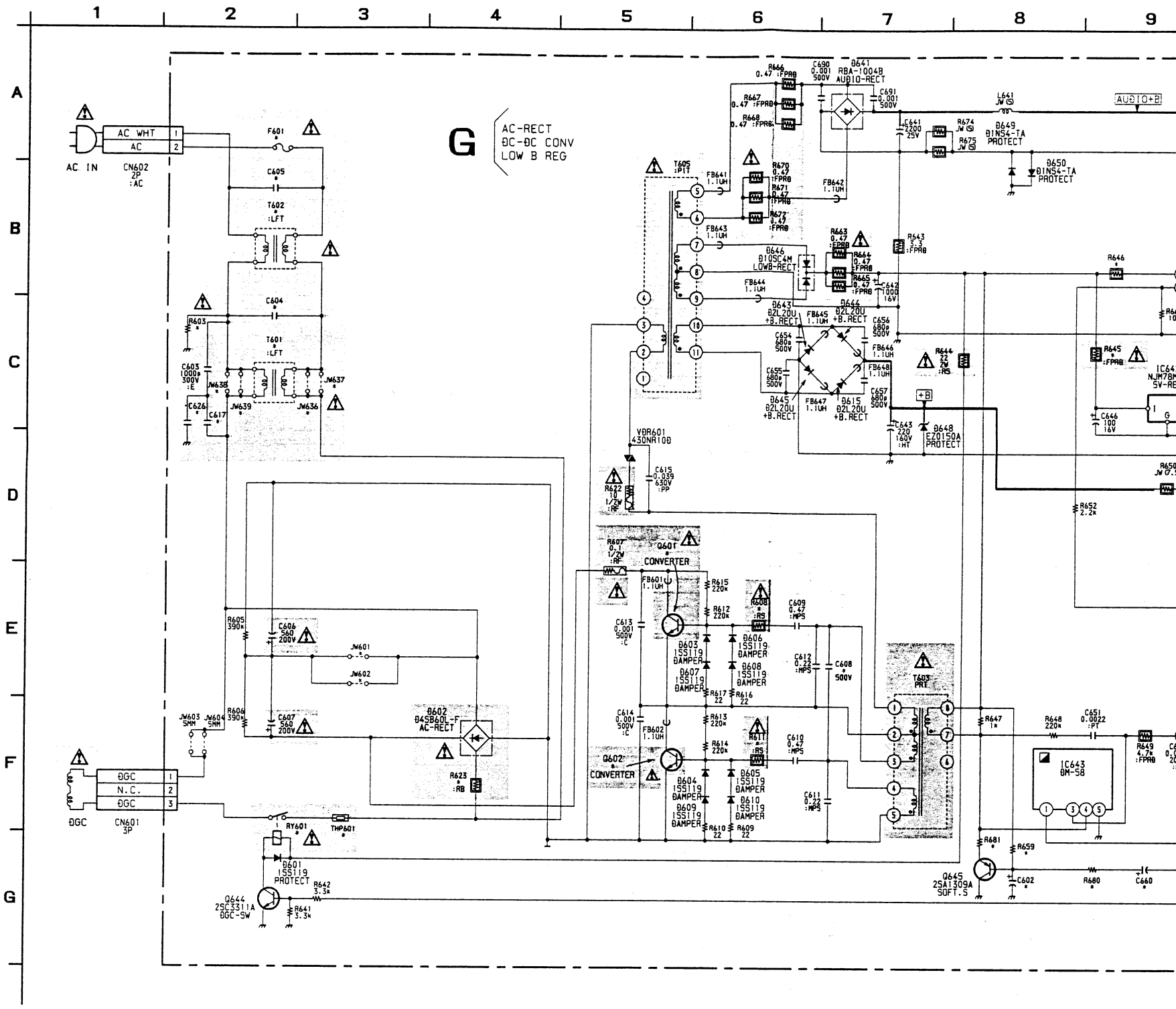
## A BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q001 | 5.2 | 0.9 | 5.0 |
| Q002 | 4.8 | 5.0 | 4.1 |
| Q003 | -0.4 | 4.2 | GND |
| Q004 | 0.8 | GND | 1.3 |
| Q010 | 0 | 8.7 | 0 |
| Q011 | 0 | 8.7 | 0 |
| Q012 | 0 | 8.7 | 0 |
| Q013 | -0.2 | 0 | GND |
| Q014 | -0.2 | 0 | GND |
| Q015 | -0.2 | 0 | GND |
| Q016 | 5.8 | 8.7 | 5.1 |
| Q017 | 4.4 | 5.0 | 5.0 |
| Q301 | 4.0 | GND | 2.2 |
| Q302 | 4.0 | GND | 1.8 |
| Q303 | 4.0 | GND | 2.0 |
| Q354 | 0.2 | GND | -0.5 |
| Q356 | 4.9 | GND | 5.6 |
| Q358 | 1.9 | 8.7 | 2.0 |
| Q461 | 0.8 | 0 | 0 |
| Q462 | 20.0 | 20.6 | 20.7 |
| Q501 | -0.7 | 105.6 | GND |
| Q502 | -0.27 | 130.8 | 0 |
| Q511 | -14.9 | -13.0 | -15.1 |
| Q512 | -16.2 | -22 | -15.9 |
| Q551 | 4.2 | 0 | 4.8 |
| Q552 | 0 | 4.2 | 0 |
| Q561 | 0.6 | 0 | GND |
| Q562 | 0.06 | 0.02 | GND |
| Q563 | 134.3 | 0.4 | 134.7 |
| Q1102 | 6.0 | 9.2 | 5.3 |
| Q1103 | 0 | 2.5 | GND |
| Q1231 | 0 | 0 | GND |
| Q1232 | 0 | 0 | GND |
| Q1261 | 4.4 | GND | 5.1 |
| Q1262 | 3.7 | GND | 4.3 |
| Q1263 | 4.6 | 9.2 | 3.9 |

All voltages are in V

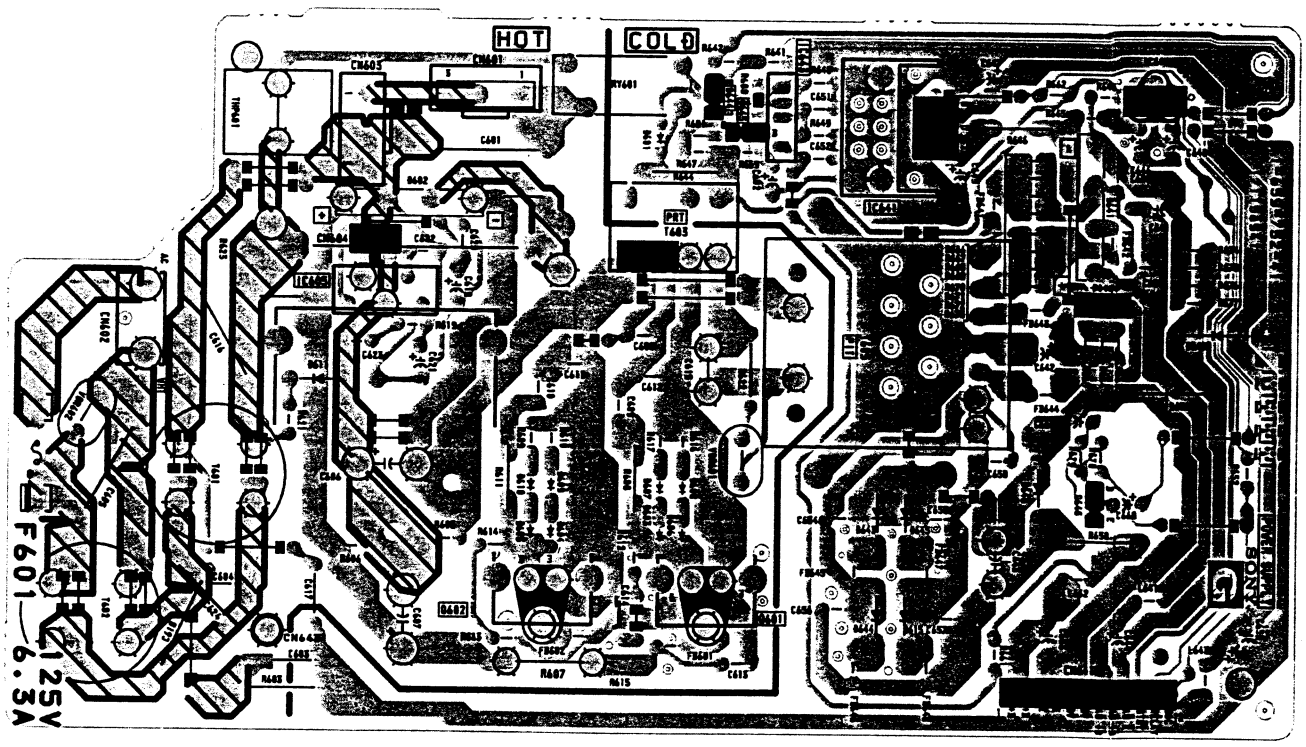
## A BOARD WAVEFORMS






**G** [AC-RECT, DC-DC CONV., LOW B REG]

**— G BOARD —**

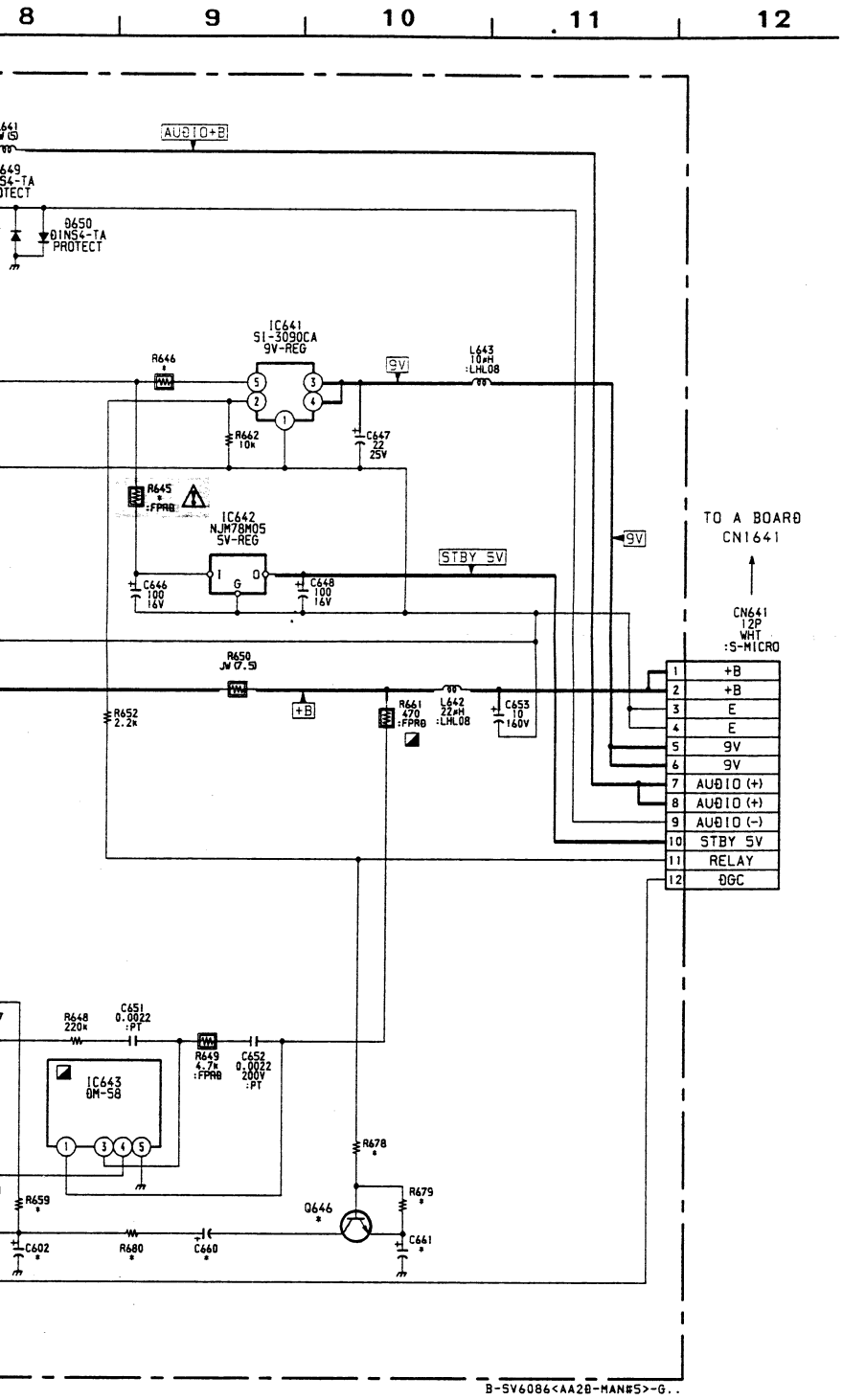



**G BOARD (*) N**

| | |
|---|---|
| C602 | |
| C604 | |
| C605 | |
| C608 | |
| C617 | |
| C626 | |
| C660 | |
| C661 | |
| F601 | |
| JW601 | |
| JW602 | |
| JW636 | |
| JW637 | |
| JW638 | |
| JW639 | |
| Q601 | |
| Q602 | |
| Q646 | |
| R603 | |
| R608 | |
| R611 | |
| R623 | |
| R645 | |
| R646 | |
| R659 | |
| R678 | |
| R679 | |
| R680 | |
| R681 | |
| RY601 | |
| T601 | |
| T602 | |
| TH601 | |

**Schematic diagrams**

← A board G C boards →




## G BOARD IC VOLTAGE LIST

| | pin | volt |
|---|---|---|
| IC641 | 1 | GND |
| | 2 | 3.9 |
| | 3 | 8.9 |
| | 4 | 8.9 |
| | 5 | 10.5 |
| IC642 | IN | 9.5 |
| | OUT | 5.0 |
| IC643 | 1 | 135 |
| | 2 | NC |
| | 3 | 2.5 |
| | 4 | 7.8 |
| | 5 | GND |

All voltages are in V

## G BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q601 | 145.2 | 294.0 | 147.5 |
| Q602 | -1.7 | 147.5 | GND |
| Q644 | -0.3 | 10.5 | GND |
| Q645 | 7.0 | GND | 7.6 |
| Q646 | 4.8 | 7,4 | 4.8 |

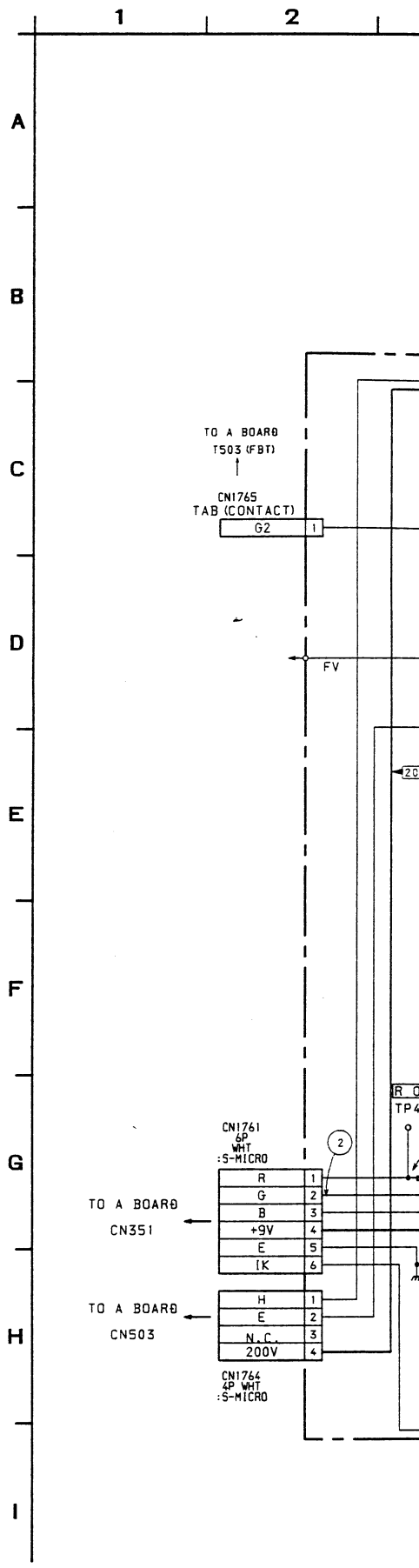
All voltages are in V

## G BOARD (*) MARK LIST

| | KV-27S22/ 27S26 | KV-27S36 | KV-29RS26C/ 29RS22C | KV-29RS26/29PS2/2 9SD2/29RS22 |
|---|---|---|---|---|
| C602 | # | # | 4.7 | # |
| C604 | # | .22 125V | # | # |
| C605 | .22/125V | .22 125V | .22/300V | .22/125V |
| C608 | 680p/500V | 680p/500V | .001/500V | 680p/500V |
| C617 | 1000p 250V | 1000p 250V | 1000p 250V | # |
| C626 | JW(7.5) | JW(7.5) | 100p/300V | JW(7.5) |
| C660 | JW(5) | JW(5) | # | JW(5) |
| C661 | 4.7 | 4.7 | # | 4.7 |
| F601 | 6.3A/125V | 6.3A/125V | 6.3A/250V | 6.3A/125V |
| JW601 | 5MM | 5MM | # | 5MM |
| JW602 | 5MM | 5MM | # | 5MM |
| JW636 | # | # | 10MM | 10MM |
| JW637 | # | # | 10MM | 10MM |
| JW638 | # | # | 10MM | 10MM |
| JW639 | # | # | 10MM | 10MM |
| Q601 | 2SC4834MNP | 2SC4834MNP | 2SC4834NP | 2SC4834MNP |
| Q602 | 2SC4834MNP | 2SC4834MNP | 2SC4834NP | 2SC4834MNP |
| Q646 | 2SC3311A | 2SC3311A | # | 2SC3311A |
| R603 | 2.2M 1/2W | 2.2M 1/2W | 8.2M 1W | 2.2M 1/2W |
| R608 | 1.8 2W | 1.8 2W | 1 2W | 1.8 2W |
| R611 | 1.8 2W | 1.8 2W | 1 2W | 1.8 2W |
| R623 | 1 20W | 1 20W | 3.9 20W | 1 20W |
| R645 | JW(5) | JW(5) | 10 1/2W | JW(5) |
| R646 | 1 2W | JW(7.5) | JW(7.5) | 1 2W |
| R659 | # | # | 10K | # |
| R678 | 22K | 22K | # | 22K |
| R679 | 22K | 22K | # | 22K |
| R680 | 10K | 10K | # | 10K |
| R681 | 150 | 150 | JW(5) | 150 |
| RY601 | 1-755-018-11 | 1-755-146-11 | 1-755-018-11 | 1-755-018-11 |
| T601 | 1-426-717-11 | 1-426-717-11 | # | # |
| T602 | 1-424-220-21 | 1-424-220-21 | 1-426-717-11 | 1-426-717-11 |
| TH601 | 1-809-539-21 | 1-809-539-21 | 1-809-827-11 | 1-809-539-21 |

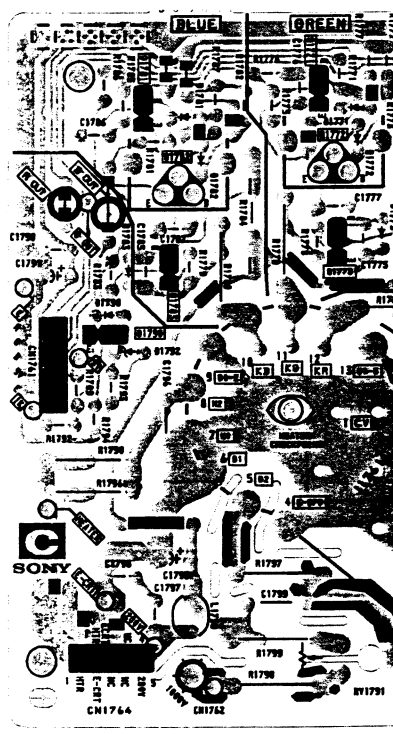
#: Not Mounted

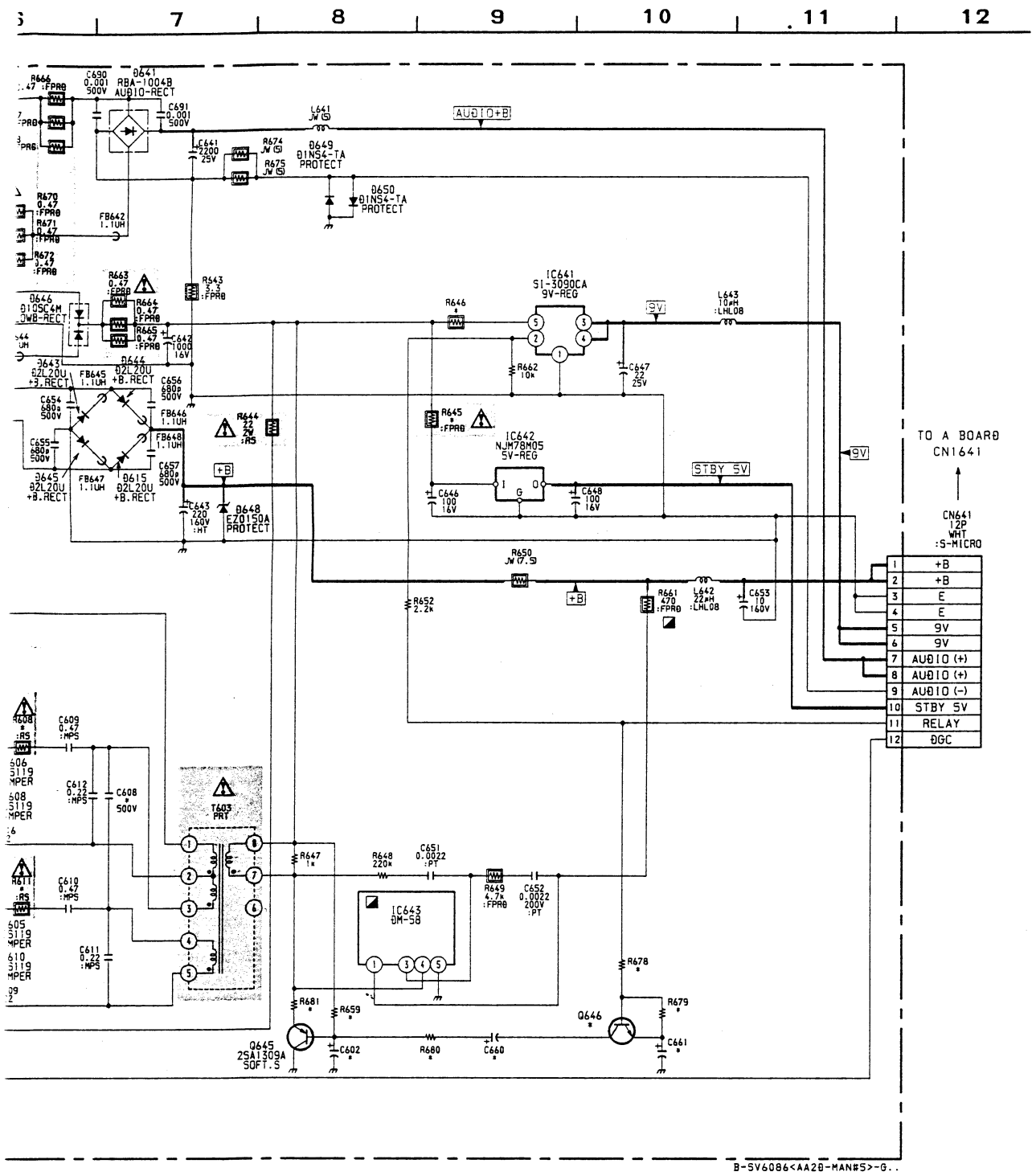





**C** [ R,G,B DRIVE, CRT DRIVE ]

## — C BOARD —






## G BOARD IC VOLTAGE LIST

| | pin | volt |
|---|---|---|
| IC641 | 1 | GND |
| | 2 | 3.9 |
| | 3 | 8.9 |
| | 4 | 8.9 |
| | 5 | 10.5 |
| IC642 | IN | 9.5 |
| | OUT | 5.0 |
| IC643 | 1 | 135 |
| | 2 | NC |
| | 3 | 2.5 |
| | 4 | 7.8 |
| | 5 | GND |

All voltages are in V

## G BOARD TRANSISTOR VOLTAGE LIST

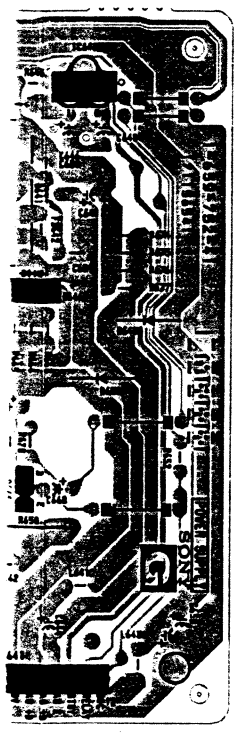
| | B | C | E |
|---|---|---|---|
| Q601 | 145.2 | 294.0 | 147.5 |
| Q602 | -1.7 | 147.5 | GND |
| Q644 | -0.3 | 10.5 | GND |
| Q645 | 7.0 | GND | 7.6 |
| Q646 | 4.8 | 7,4 | 4.8 |

All voltages are in V

## G BOARD (*) MARK LIST

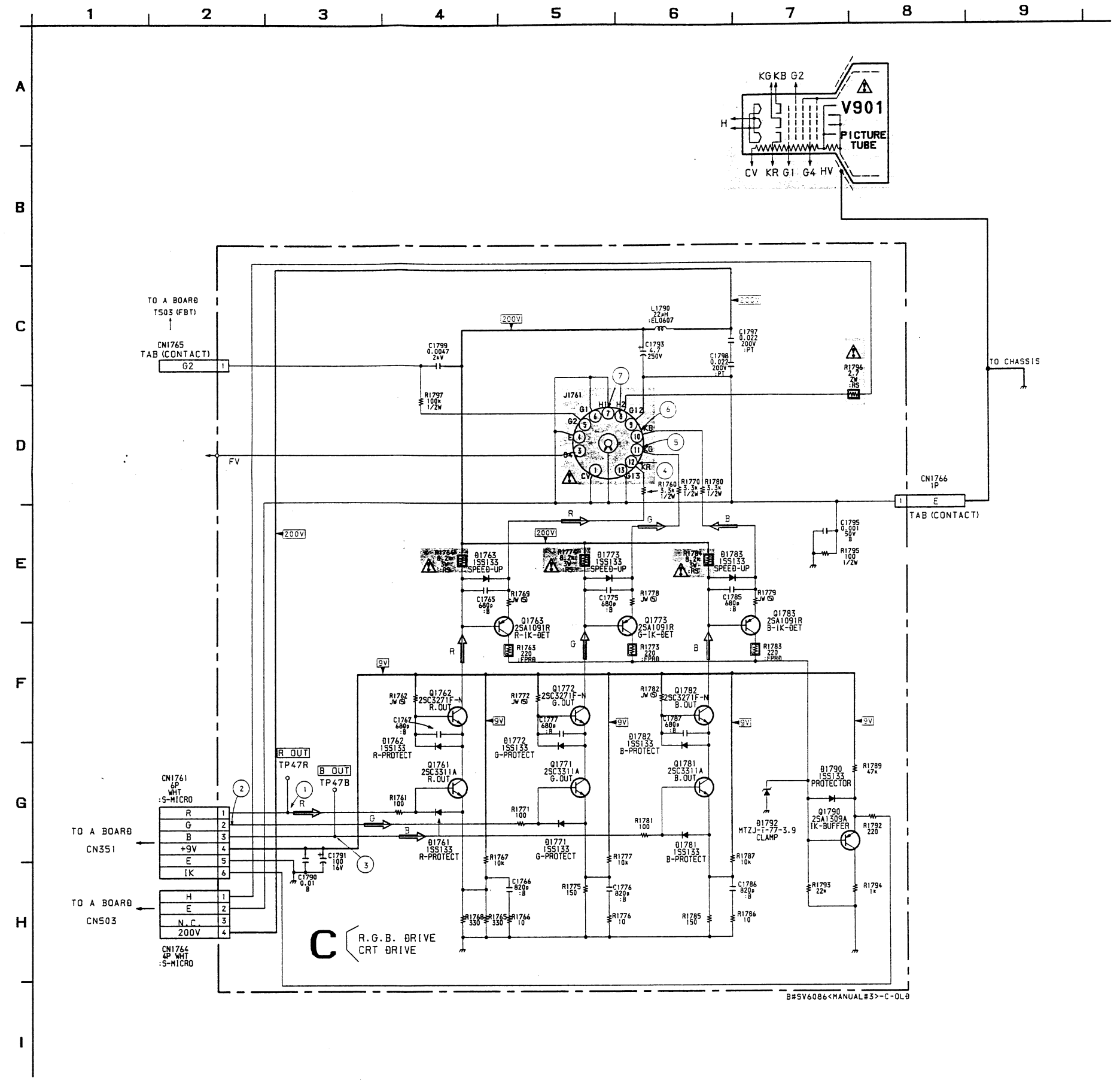
| | KV-27S22/ 27S26 | KV-27S36 | KV-29RS26C/ 29RS22C | KV-29RS26/29PS2/29SD2/29RS22 |
|---|---|---|---|---|
| C602 | # | # | 4.7 | # |
| C604 | # | .22 125V | # | # |
| C605 | .22/125V | .22 125V | .22/300V | .22/125V |
| C608 | 680p/500V | 680p/500V | .001/500V | 680p/500V |
| C617 | 1000p 250V | 1000p 250V | 1000p 250V | # |
| C626 | JW(7.5) | JW(7.5) | 100p/300V | JW(7.5) |
| C660 | JW(5) | JW(5) | # | JW(5) |
| C661 | 4.7 | 4.7 | # | 4.7 |
| F601 | 6.3A/125V | 6.3A/125V | 6.3A/250V | 6.3A/125V |
| JW601 | 5MM | 5MM | # | 5MM |
| JW602 | 5MM | 5MM | # | 5MM |
| JW636 | # | # | 10MM | 10MM |
| JW637 | # | # | 10MM | 10MM |
| JW638 | # | # | 10MM | 10MM |
| JW639 | # | # | 10MM | 10MM |
| Q601 | 2SC4834MNP | 2SC4834MNP | 2SC4834NP | 2SC4834MNP |
| Q602 | 2SC4834MNP | 2SC4834MNP | 2SC4834NP | 2SC4834MNP |
| Q646 | 2SC3311A | 2SC3311A | # | 2SC3311A |
| R603 | 2.2M 1/2W | 2.2M 1/2W | 8.2M 1W | 2.2M 1/2W |
| R608 | 1.8 2W | 1.8 2W | 1 2W | 1.8 2W |
| R611 | 1.8 2W | 1.8 2W | 1 2W | 1.8 2W |
| R623 | 1 20W | 1 20W | 3.9 20W | 1 20W |
| R645 | JW(5) | JW(5) | 10 1/2W | JW(5) |
| R646 | 1 2W | JW(7.5) | JW(7.5) | 1 2W |
| R659 | # | # | 10K | # |
| R678 | 22K | 22K | # | 22K |
| R679 | 22K | 22K | # | 22K |
| R680 | 10K | 10K | # | 10K |
| R681 | 150 | 150 | JW(5) | 150 |
| RY601 | 1-755-018-11 | 1-755-146-11 | 1-755-018-11 | 1-755-018-11 |
| T601 | 1-426-717-11 | 1-426-717-11 | # | # |
| T602 | 1-424-220-21 | 1-424-220-21 | 1-426-717-11 | 1-426-717-11 |
| TH601 | 1-809-539-21 | 1-809-539-21 | 1-809-827-11 | 1-809-539-21 |

#: Not Mounted



| E |
|---|
| 47.5 |
| GND |
| GND |
| 7.6 |
| 4.8 |

es are in V




## C [ R,G,B DRIVE, CRT DRIVE ]

## — C BOARD —



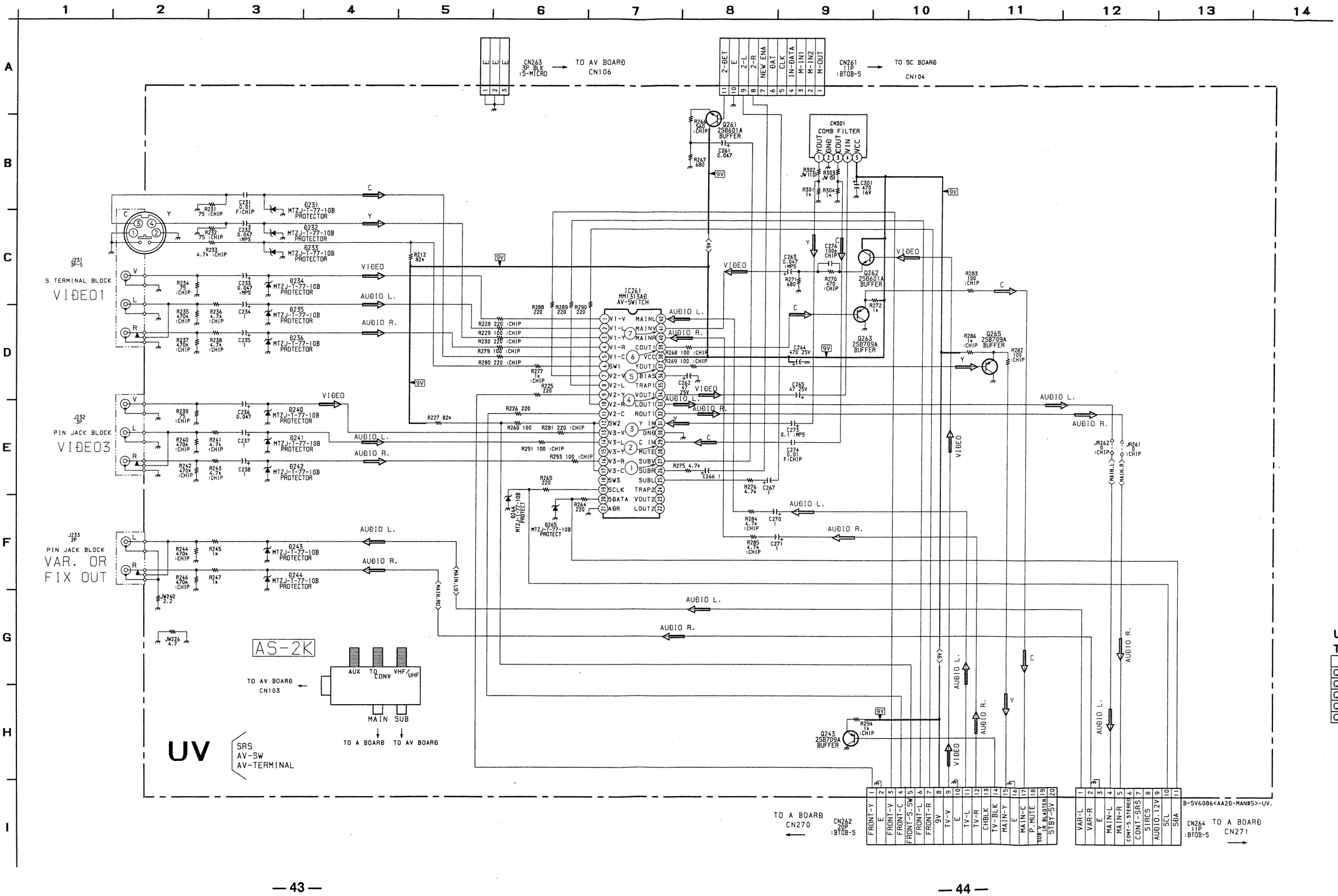

## C BOARD WAVEFORMS




## C BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q1761 | 2.2 | 8.2 | 1.7 |
| Q1762 | 8.7 | 134.1 | 8.2 |
| Q1763 | 134.1 | 2.3 | 132.0 |
| Q1771 | 1.8 | 8.2 | 1.3 |
| Q1772 | 8.7 | 146.4 | 8.2 |
| Q1773 | 146.4 | 2.3 | 144.1 |
| Q1781 | 2.1 | 8.2 | 1.6 |
| Q1782 | 8.7 | 133.7 | 8.2 |
| Q1783 | 133.7 | 2.3 | 131.5 |
| Q1790 | 2.2 | 0.2 | 2.5 |

All voltages are in V




UV E
TRA

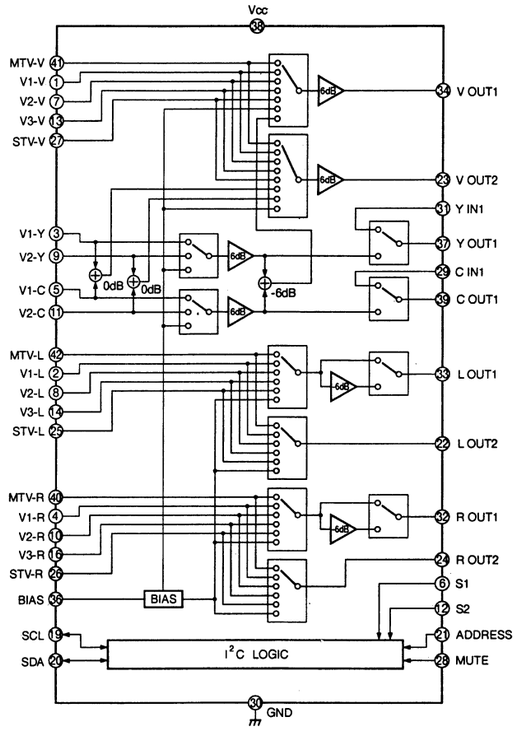
| |
|---|
| Q243 |
| Q261 |
| Q262 |
| Q263 |
| Q265 |

## UV BOARD IC VOLTAGE LIST

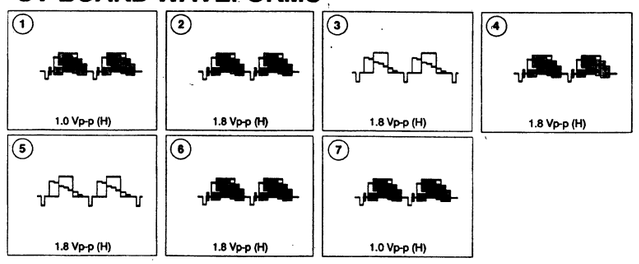
| IC261 | |
|---|---|
| pin | volt |
| 1 | 4.8 |
| 2 | 4.2 |
| 3 | 4.8 |
| 4 | 4.2 |
| 5 | 4.8 |
| 6 | 4.5 |
| 7 | 4.8 |
| 8 | 4.2 |
| 9 | 4.8 |
| 10 | 4.2 |
| 11 | 4.9 |
| 12 | 5.8 |
| 13 | 4.8 |
| 14 | 4.2 |
| 15 | 0 |
| 16 | 4.2 |
| 17 | 5.8 |
| 18 | NC |
| 19 | 5.0 |
| 20 | 4.9 |
| 21 | GND |
| 22 | NC |
| 23 | NC |
| 24 | NC |
| 25 | 4.2 |
| 26 | 4.2 |
| 27 | 6.1 |
| 28 | NC |
| 29 | 4.8 |
| 30 | GND |
| 31 | 5.6 |
| 32 | 4.1 |
| 33 | 4.1 |
| 34 | 5.0 |
| 35 | NC |
| 36 | 4.2 |
| 37 | 4.3 |
| 38 | 8.7 |
| 39 | 3.4 |
| 40 | 4.2 |
| 41 | 5.2 |
| 42 | 4.2 |

All voltages are in V

## UV BOARD IC1261 MM1313AD




## UV BOARD WAVEFORMS




## UV BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q243 | 0.2 | GND | 0.9 |
| Q261 | 4.6 | 8.7 | 4.0 |
| Q262 | 4.9 | 8.7 | 4.2 |
| Q263 | 3.4 | GND | 4.1 |
| Q265 | 4.3 | GND | 4.9 |

All voltages are in V

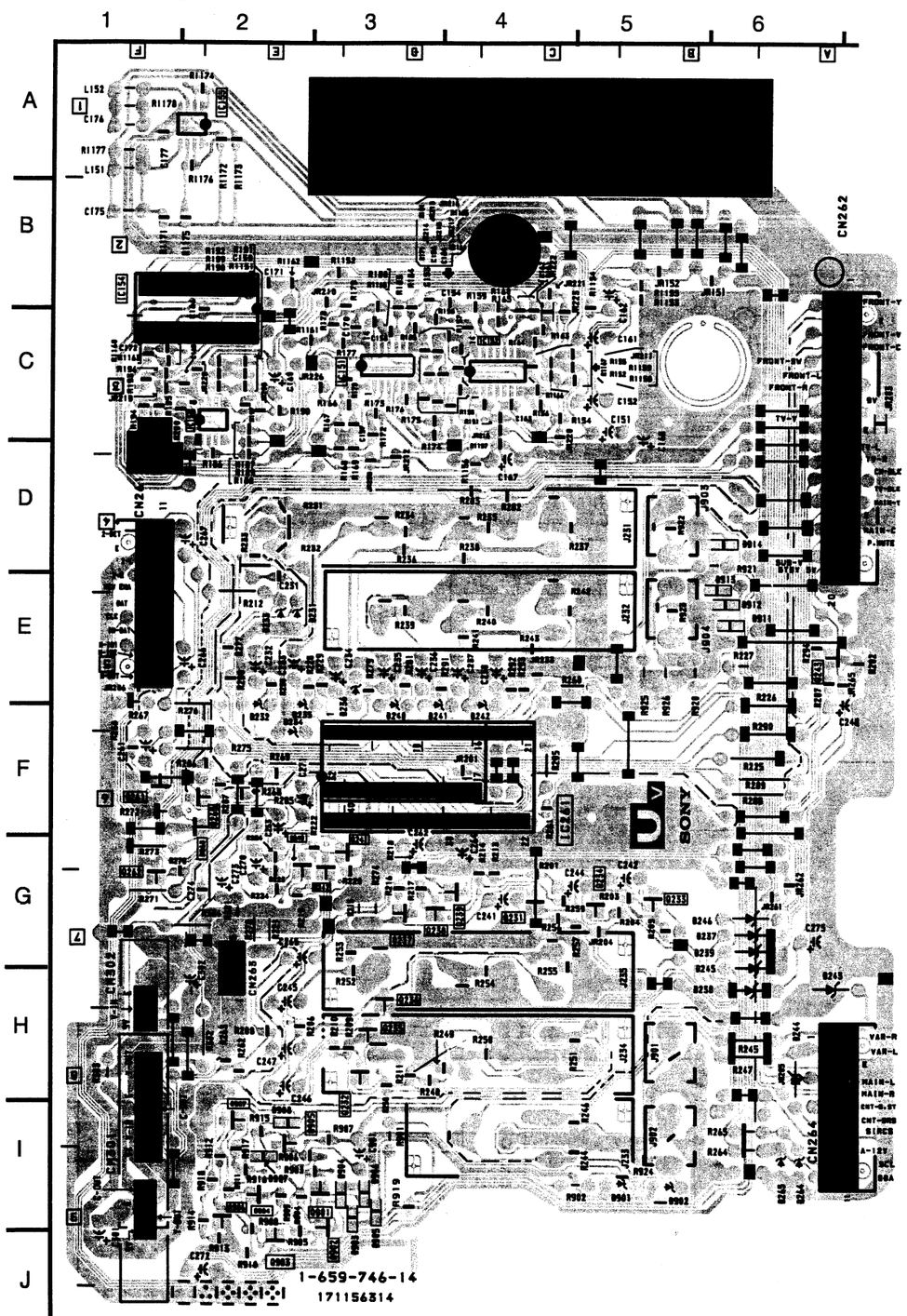
36<AA20-MAN#5>-UV.

TO A BOARD
CN271



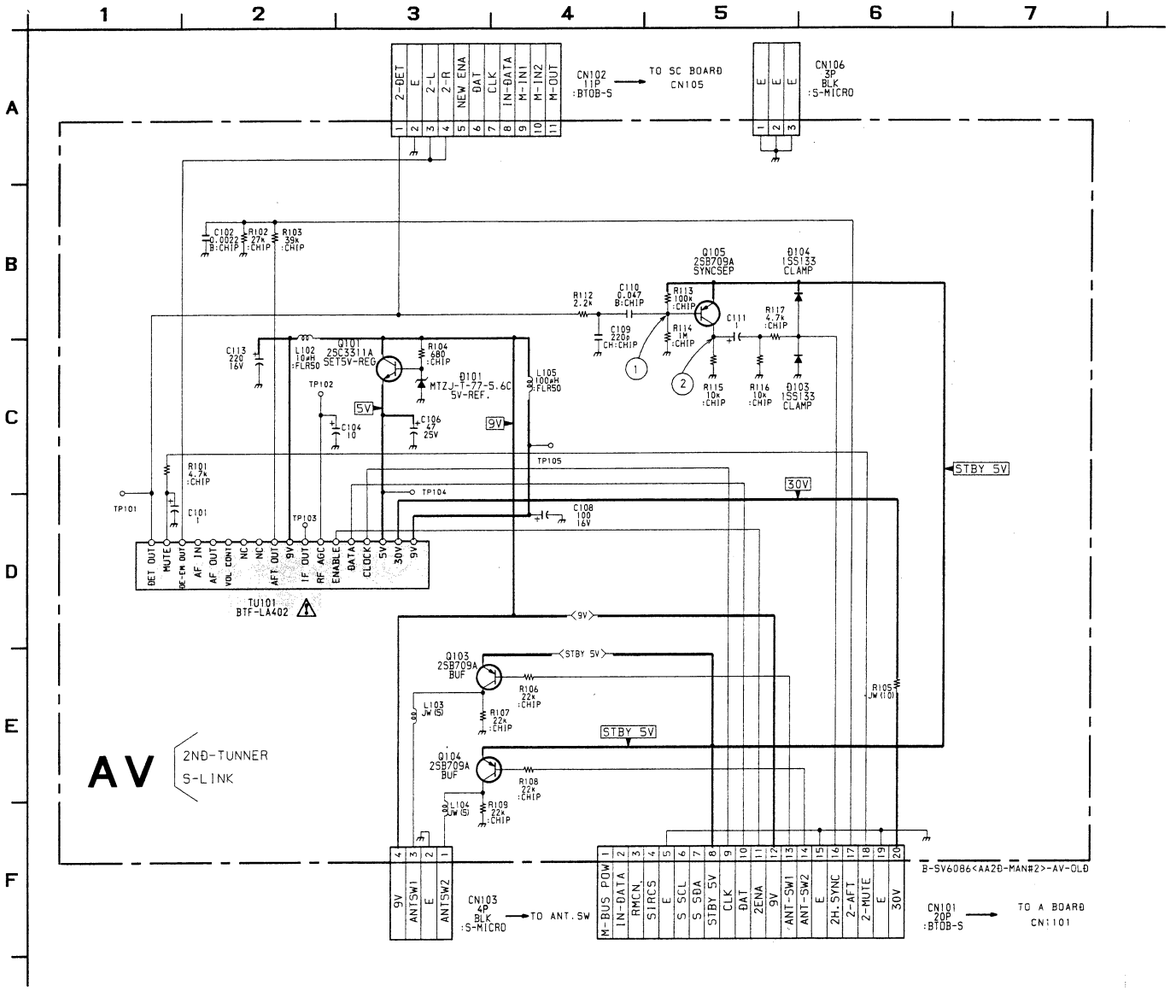
# UV [SRS, AV-SW, AV-TERMINAL] (KV-27S36 ONLY)

— UV BOARD —

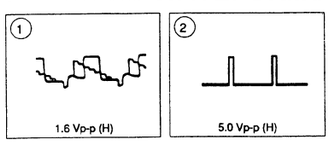



## UV BOARD LOCATOR LIST

| DIODE | |
|---|---|
| D231 | E-2 |
| D232 | E-2 |
| D233 | E-2 |
| D234 | F-2 |
| D235 | E-2 |
| D236 | E-3 |
| D240 | E-3 |
| D241 | E-3 |
| D242 | E-4 |
| D243 | G-6 |
| D244 | H-6 |
| D246 | G-6 |
| D264 | I-6 |
| D265 | I-6 |
| **IC** | |
| IC261 | F-4 |
| **TRANSISTOR** | |
| Q243 | E-6 |
| Q261 | F-1 |
| Q262 | G-1 |
| Q263 | F-2 |
| Q265 | F-2 |




## AV BOARD WAVEFORMS




## AV BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q101 | 5.8 | 8.7 | 5.1 |
| Q103 | 4.3 | 4.9 | 5.0 |
| Q104 | 5.0 | 0 | 5.0 |
| Q105 | 5.0 | 0.8 | 5.0 |

All voltages are in V

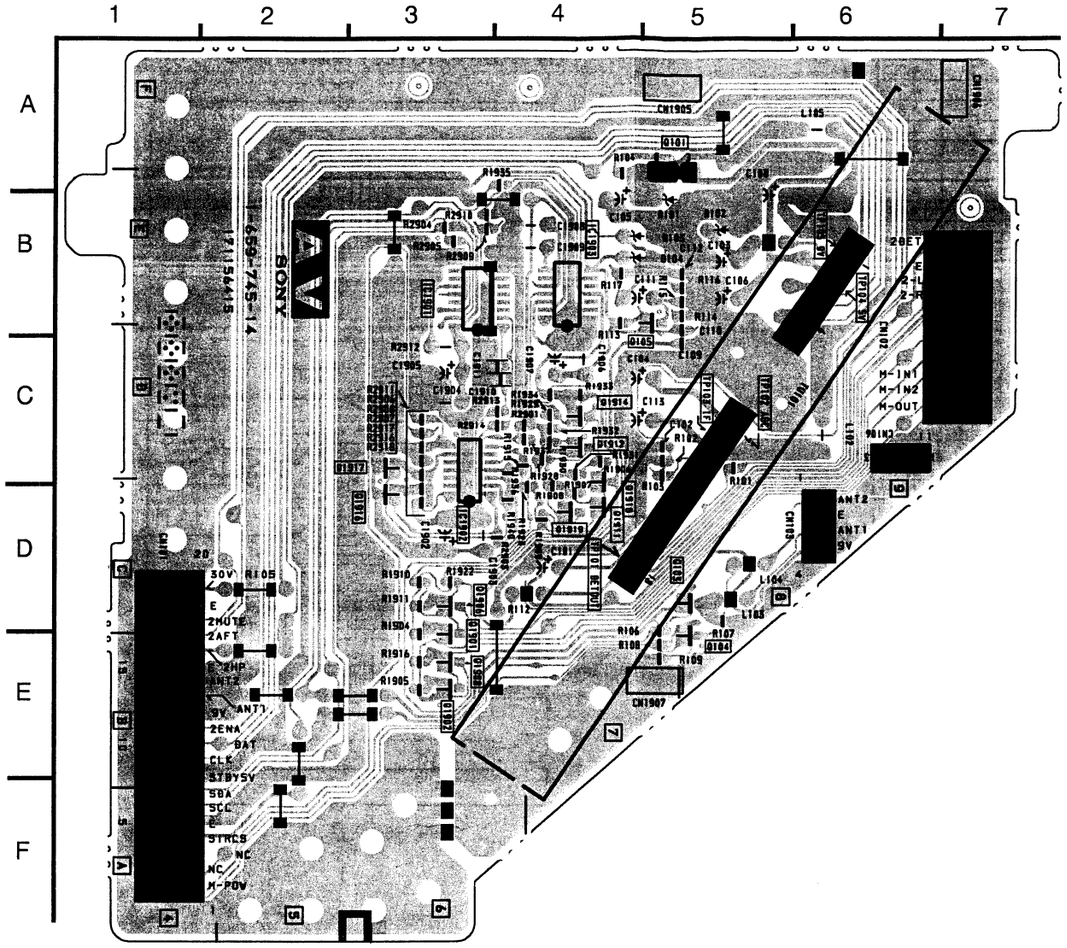
**Schematic diagrams**

← UV board AV board →



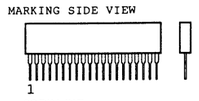
## AV [ 2ND-TUNER, S-LINK] (KV-27S36 ONLY)

**— AV BOARD —**



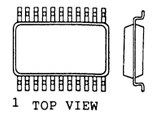
## 4-4. SEMICONDUCTORS

BH3856FS-E2



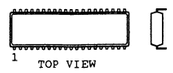

32PIN SIP

CXA1315M



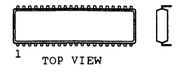

16PIN SOP

CXA2025AS



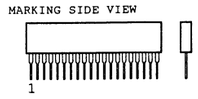

48PIN DIP

CXP85840-002S



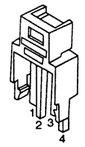

64PIN DIP

DM-58

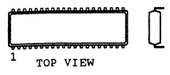



4PIN SIP

IS474

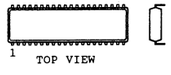



MM1311AD



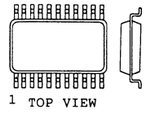

32PIN DIP

MM1313AD



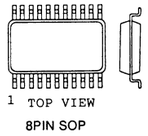

42PIN DIP

TDA8315T/N3A-T



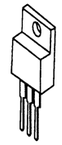

24PIN SOS

NJM2903M
ST24CO2FM6TR
UPC4558G2

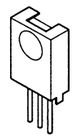



8PIN SOP

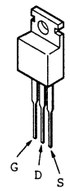
NJM78M05FA
TA7805S



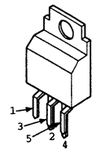
SBX1981-51



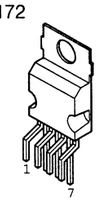
IRF614



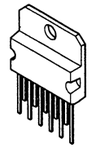

SI3090CA



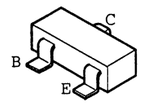

TDA8172



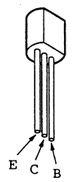

TDA2009A



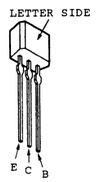
2SA1037AK-T146-R
2SA1162-G
2SA1130-06
2SD601A-Q



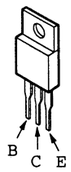

2SA1091-0



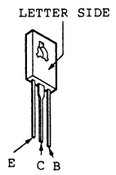

2SA1175-HFE
2SC2785-HFE



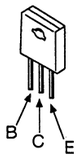

2SA1837
2SC4159-E



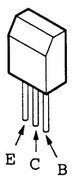

2SC2611



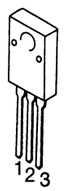

2SC4834M



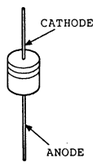

2SC3209LK



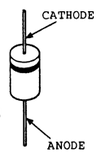

D10SC4M



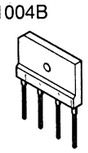

D1NS4
MTZJ-3.3
MTZJ-33A
MTZJ-6.2B
MTZJ-7.5B
RD10ESB2
RD39ES-B2
RD5.6ESB2
1SS19-25



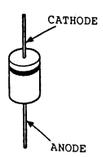

D2L2OU
EL1Z
EZ0150AV1
GP08D
MTZJ-T-77-3.9
RGP02-17EL-6433



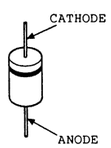

D4SB60L
RBA-1004B



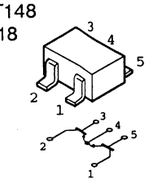
ERC06-15S
ISSI33T-77




ERD29-08J




FMGAT148
2SC5418






## SECTION 5
## EXPLODED VIEW

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

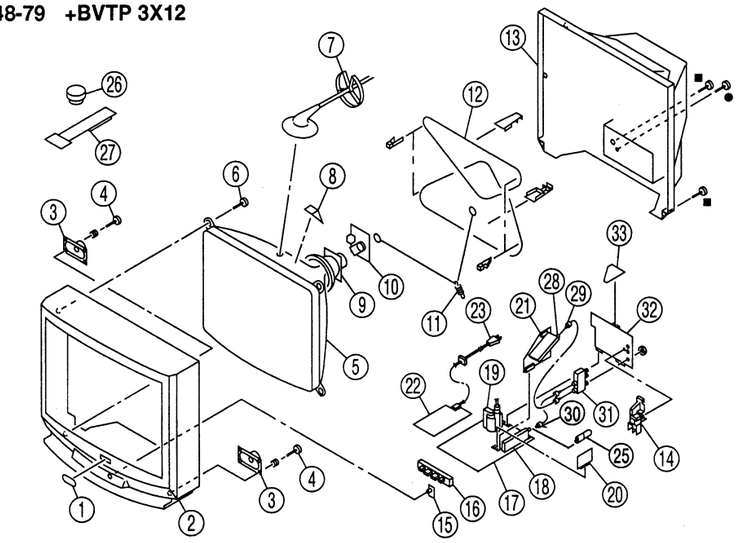
**Note:**

**The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

**Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

## 5-1. CHASSIS

■ **7-685-663-79 SCREW +BVTP 4X16**
● **7-685-648-79 +BVTP 3X12**




| REF.NO. | | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|---|
| 1 | | 4-046-160-01 | EMBLEM (NO.9), SONY | |
| 2 | | 4-059-086-01 | BEZNET (KV-27S22/29RS22/29RS22C) | |
| 2 | | 4-059-447-01 | BEZNET (KV-27S26/29RS26/29RS26C) | |
| 2 | | 4-059-447-11 | BEZNET (KV-29SD2/29PS2) | |
| 2 | | 4-059-447-21 | BEZNET (KV-27S36) | |
| 3 | | 1-504-531-11 | SPEAKER (13.1X6.2CM) | |
| 4 | | 4-388-477-01 | SCREW (3X16), TAPPING, +BV WASHER | |
| 5 | ⚠ | 8-733-848-05 | CRT 29PXD (A68KZJ50X) | (EXCEPT KV-29RS22C/29RS26C) |
| 5 | ⚠ | 8-733-849-05 | CRT 29PXD (A68KZJ50X) | (KV-29RS22C/29RS26C) |
| 6 | | 4-041-268-01 | SCREW (7), TAPPING | |
| 7 | | 3-704-372-31 | HOLDER, HV CABLE | |
| 8 | | 4-053-005-01 | SPACER, DY | |
| 9 | ⚠ | 8-451-275-42 | DEFLECTION YOKE Y28PFA | |
| 10 | * | A-1331-549-A | C BOARD, COMPLETE | |
| 11 | | 4-036-329-01 | SPRING (B), TENSION | |
| 12 | ⚠ | 1-406-726-81 | COIL, DEMAGNETIC (KV-29RS22C/29RS26C) | |
| 12 | ⚠ | 1-411-899-11 | COIL, DEMAGNETIC | (EXCEPT KV-29RS22C/29RS26C) |
| 13 | | 4-054-519-01 | COVER, REAR (KV-27S36) | |
| 13 | | 4-052-462-01 | COVER, REAR (KV-27S26/29RS26/29RS26C) | |
| 13 | | 4-052-462-21 | COVER, REAR | (27S22/29RS22/29RS22C/29SD2/29PS2) |
| 14 | * | 4-052-905-01 | V5/6 BRACKET (KV-27S36) | |
| 15 | | 4-052-461-01 | GUIDE, LED | |
| 16 | | 4-052-460-01 | BUTTON, MULTI | |

| REF.NO. | | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|---|
| 17 | * | A-1298-061-A | A BOARD, COMPLETE | (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| 17 | * | A-1298-162-A | A BOARD, COMPLETE (27S26/29RS26/29RS26C) | |
| 17 | * | A-1298-163-A | A BOARD, COMPLETE (27S36) | |
| 18 | ⚠ | 8-598-340-00 | TUNER BTF-WA405 | |
| 19 | ⚠ | 1-453-207-11 | TRANSFORMER ASSY, FLYBACK NX-2609//X4C | |
| 20 | * | A-1195-103-A | P BOARD, COMPLETE (KV-27S26/27S36/29RS26/29RS26C) | |
| 21 | * | A-1297-905-A | AV BOARD, COMPLETE (KV-27S36) | |
| 22 | * | A-1316-249-A | G BOARD, COMPLETE (KV-27S22/27S26) | |
| 22 | * | A-1316-252-A | G BOARD, COMPLETE (KV-29RS22C/29RS26C) | |
| 22 | * | A-1316-261-A | G BOARD, COMPLETE (KV-27S36) | |
| 22 | * | A-1316-296-A | G BOARD, COMPLETE (KV-29RS22/29RS26/29SD2/29PS2) | |
| 23 | ⚠ | 1-751-059-11 | CORD, POWER (WITH CONNECTOR) 10A/250V | (EXCEPT KV-29RS22C/29RS26C) |
| 23 | ⚠ | 1-769-796-41 | CORD, POWER (WITH CONNECTOR) 10A/125V | (KV-29RS22C/29RS26C) |
| 25 | | 1-766-374-11 | PLUG, F-PIN (EXCEPT KV-27S36) | |
| 26 | | 1-452-032-00 | MAGNET, DISC | |
| 27 | | X-4306-312-0 | PERMALLOY CONVERGENCE | |
| 28 | ⚠ | 8-598-339-00 | TUNER BTF-LA402 (KV-27S36) | |
| 29 | * | 1-557-056-31 | CABLE, P-P (KV-27S36) | |
| 30 | * | 1-556-945-21 | CABLE, P-P (KV-27S36) | |
| 31 | | 8-598-414-00 | CHANGER, ANTENNA AS-2K (KV-27S36) | |
| 32 | * | A-1394-863-A | UV BOARD, COMPLETE (KV-27S36) | |
| 33 | * | A-1390-585-A | SC BOARD, COMPLETE (KV-27S36) | |

# SECTION 6
# ELECTRICAL PARTS LIST

**Note:**

**The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

**Note:**

**Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

The components identified by ⋈ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF = μF

INDUCTORS
UH = μH
MMH = mH

When indicating parts by reference number, please include the board name.

P

* A-1195-103-A P BOARD, COMPLETE
(KV-27S26/27S36/29RS26/29RS26C ONLY)

### CAPACITOR

| REF.NO. | PART NO. | DESCRIPTION | | | |
|---|---|---|---|---|---|
| C3301 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C3302 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C3303 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3304 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C3305 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3306 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3307 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3308 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C3309 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C3310 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3313 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3314 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3315 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C3319 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3320 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C3321 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C3322 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C3323 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3324 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3325 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3326 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3327 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3328 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3329 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3330 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3331 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3332 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C3333 | 1-164-695-11 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C3334 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3335 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3336 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| C3337 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C3338 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C3340 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3346 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C3347 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C3348 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3349 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C3350 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3351 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |

### CONNECTOR

| | | | |
|---|---|---|---|
| CN3301* | 1-764-816-11 | CONNECTOR, BOARD TO BOARD 20P | |

### IC

| | | | |
|---|---|---|---|
| IC3301 | 8-759-366-24 | IC TDA8315T/N3A-T | |
| IC3302 | 8-759-231-53 | IC TA7805S | |
| IC3303 | 8-759-438-61 | IC SDA9288X-A141 | |

### COIL

| | | | |
|---|---|---|---|
| L3301 | 1-408-413-00 | INDUCTOR | 22UH |
| L3302 | 1-410-473-11 | INDUCTOR | 18UH |
| L3303 | 1-408-418-00 | INDUCTOR | 56UH |

### TRANSISTOR

| | | |
|---|---|---|
| Q3301 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q3305 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q3306 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q3307 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q3308 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q3310 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |
| Q3312 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q3313 | 8-729-422-27 | TRANSISTOR 2SD601A-Q |

### RESISTOR

| | | | | | |
|---|---|---|---|---|---|
| R3301 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W |
| R3302 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R3303 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | |
| R3304 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R3306 | 1-215-882-00 | METAL OXIDE | 22 | 5% | 2W F |
| R3307 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W |

P AV

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R3308 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R3309 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R3310 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R3311 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R3312 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R3313 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3314 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3315 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3316 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R3319 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R3321 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R3322 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3323 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3324 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3326 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R3327 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R3328 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R3329 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R3330 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R3331 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3332 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3337 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3338 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3339 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3340 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3341 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3342 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3343 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R3346 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R3351 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | |
| R3352 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R3358 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R3359 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R3360 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R3361 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R3362 | 1-216-029-00 | METAL GLAZE | 150 | 5% | 1/10W |
| R3363 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R3364 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R3365 | 1-216-105-91 | METAL GLAZE | 220K | 5% | 1/10W |
| R3366 | 1-216-105-91 | METAL GLAZE | 220K | 5% | 1/10W |
| R3367 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W |
| R3368 | 1-216-103-00 | METAL GLAZE | 180K | 5% | 1/10W |
| R3369 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W |
| R3370 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3371 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W |
| R3372 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3373 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | **CRYSTAL** | |
| X3301 | 1-567-505-11 | OSCILLATOR, CRYSTAL | |
| X3302 | 1-760-095-21 | VIBRATOR, CRYSTAL | |

## AV

* A-1297-905-A AV BOARD, COMPLETE (KV-27S36 ONLY)

**CAPACITOR**

| | | | | | |
|---|---|---|---|---|---|
| C101 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C102 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C104 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C106 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C108 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C109 | 1-163-259-91 | CERAMIC CHIP | 220PF | 5% | 50V |
| C110 | 1-104-760-11 | CERAMIC CHIP | 0.047MF | 10% | 50V |
| C111 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C113 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |

**CONNECTOR**

| | | |
|---|---|---|
| CN101 | 1-573-301-21 | CONNECTOR, BOARD TO BOARD 20P |
| CN102 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD 11P |
| CN103 * | 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN106 * | 1-564-506-11 | PLUG, CONNECTOR 3P |

**DIODE**

| | | |
|---|---|---|
| D101 | 8-719-109-89 | DIODE RD5.6ESB2 |
| D103 | 8-719-991-33 | DIODE 1SS133T-77 |
| D104 | 8-719-991-33 | DIODE 1SS133T-77 |

**COIL**

| | | | |
|---|---|---|---|
| L102 | 1-410-470-11 | INDUCTOR | 10UH |
| L105 | 1-408-421-00 | INDUCTOR | 100UH |

**TRANSISTOR**

| | | |
|---|---|---|
| Q101 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q103 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q104 | 8-729-216-22 | TRANSISTOR 2SA1162-G |
| Q105 | 8-729-216-22 | TRANSISTOR 2SA1162-G |

**RESISTOR**

| | | | | | |
|---|---|---|---|---|---|
| R101 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R102 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R103 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W |
| R104 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R106 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R107 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R108 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

AV A

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R109 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R112 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R113 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W |
| R114 | 1-216-121-91 | METAL GLAZE | 1M | 5% | 1/10W |
| R115 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R116 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R117 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |

TUNER

TU101 ⚠ 8-598-339-00 TUNER, FSS BTF-LA402

A

* A-1298-061-A A BOARD, COMPLETE (KV-27S22/29PS2/29SD2/29RS22/29RS22C)

* A-1298-162-A A BOARD, COMPLETE (KV-27S26/29RS26/29RS26C)

* A-1298-163-A A BOARD, COMPLETE (KV-27S36)

* 4-051-927-01 CASE, SHIELD
4-382-854-11 SCREW (M3X10), P, SW (+)

CAPACITOR

| | | | | | |
|---|---|---|---|---|---|
| C001 | 1-163-259-91 | CERAMIC CHIP | 220PF | 5% | 50V |
| C003 | 1-104-760-11 | CERAMIC CHIP | 0.047MF | 10% | 50V |
| C005 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C009 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C010 | 1-163-033-91 | CERAMIC CHIP | 0.022MF | | 50V |
| C012 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| C013 | 1-216-121-91 | METAL GLAZE | 1M | 5% | 1/10W |
| C014 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C023 | 1-163-259-91 | CERAMIC CHIP | 220PF | 5% | 50V |
| C028 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C029 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C035 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C036 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C037 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C038 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C039 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C040 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C051 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C053 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C056 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C061 | 1-163-033-91 | CERAMIC CHIP | 0.022MF | | 50V |
| C062 | 1-163-033-91 | CERAMIC CHIP | 0.022MF | | 50V |
| C063 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C068 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C071 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C072 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C075 | 1-107-823-11 | CERAMIC CHIP | 0.47MF | 10% | 16V |
| C353 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C354 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C355 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C356 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C357 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C358 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C359 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C363 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C364 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C365 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C366 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C367 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C368 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C369 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C370 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C371 | 1-163-141-00 | CERAMIC CHIP | 0.001MF | 5% | 50V |
| C372 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C373 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C375 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | | 50V (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| C376 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C377 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C378 | 1-136-244-11 | FILM | 0.1MF | 5% | 50V |
| C379 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C380 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C381 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C383 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C385 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C386 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C387 | 1-126-961-11 | ELECT | 2.2MF | 20% | 50V |
| C388 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C390 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C391 | 1-163-017-00 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C392 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C461 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C462 | 1-126-961-11 | ELECT | 2.2MF | 20% | 50V |
| C463 | 1-126-961-11 | ELECT | 2.2MF | 20% | 50V |
| C466 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C468 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C470 | 1-126-961-11 | ELECT | 2.2MF | 20% | 50V |
| C471 | 1-104-666-11 | ELECT | 220MF | 20% | 25V |
| C472 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C473 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C474 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C475 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C476 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |
| C477 | 1-126-942-61 | ELECT | 1000MF | 20% | 25V |

A

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Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C501 | 1-102-110-00 | CERAMIC | 220PF | 10% | 50V |
| C502 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C503 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C504 | 1-102-212-00 | CERAMIC | 820PF | 10% | 500V |
| C505 | 1-102-002-00 | CERAMIC | 680PF | 10% | 500V |
| C506 | 1-106-383-00 | MYLAR | 0.047MF | 10% | 200V |
| C507 ⚠ | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C508 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500V |
| C509 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C510 | 1-137-150-11 | MYLAR | 0.01MF | 10% | 100V |
| C511 ⚠ | 1-115-460-11 | FILM | 0.022MF | 3% | 1.2KV |
| C513 ⚠ | 1-130-895-00 | FILM | 0.056MF | 5% | 400V |
| C514 ⚠ | 1-104-844-11 | FILM | 0.62MF | 5% | 200V |
| C515 | 1-106-343-00 | MYLAR | 0.001MF | 10% | 100V |
| C516 | 1-115-461-11 | FILM | 2MF | 5% | 200V |
| C517 | 1-107-649-11 | ELECT | 2.2MF | 20% | 250V |
| C518 | 1-106-395-00 | MYLAR | 0.15MF | 10% | 200V |
| C519 | 1-162-815-11 | CERAMIC | 47PF | 5% | 500V |
| C520 | 1-164-646-11 | CERAMIC | 2200PF | 10% | 500V |
| C521 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C522 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C525 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500V |
| C526 | 1-107-662-11 | ELECT | 22MF | 20% | 250V |
| C527 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C528 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C529 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C530 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V |
| C531 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C532 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C537 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C539 ⚠ | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C540 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C541 | 1-128-560-11 | ELECT | 22MF | 20% | 100V |
| C545 | 1-106-387-00 | MYLAR | 0.068MF | 10% | 200V |
| C546 | 1-106-343-00 | MYLAR | 0.001MF | 10% | 100V |
| C547 | 1-106-343-00 | MYLAR | 0.001MF | 10% | 100V |
| C551 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C561 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C563 | 1-126-923-11 | ELECT | 220MF | 20% | 10V |
| C564 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C565 | 1-126-969-11 | ELECT | 220MF | 20% | 50V |
| C566 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C568 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C571 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C1002 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C1101 | 1-126-768-11 | ELECT | 2200MF | 20% | 16V |
| C1103 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C1104 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1105 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1106 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1107 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C1108 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C1109 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C1110 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C1111 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C1112 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C1236 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V (KV-27S26/29RS26/29RS26C) |
| C1237 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V (KV-27S26/29RS26/29RS26C) |
| C1238 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V (EXCEPT KV-27S36) |
| C1239 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (EXCEPT KV-27S36) |
| C1240 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (EXCEPT KV-27S36) |
| C1241 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V (KV-27S26/29RS26/29RS26C) |
| C1242 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (KV-27S26/29RS26/29RS26C) |
| C1243 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (KV-27S26/29RS26/29RS26C) |
| C1244 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C1245 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C1261 | 1-126-967-11 | ELECT | 47MF | 20% | 16V (EXCEPT KV-27S36) |
| C1262 | 1-126-967-11 | ELECT | 47MF | 20% | 16V (EXCEPT KV-27S36) |
| C1263 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (EXCEPT KV-27S36) |
| C1264 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (EXCEPT KV-27S36) |
| C1265 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V (EXCEPT KV-27S36) |
| C1266 | 1-126-967-11 | ELECT | 47MF | 20% | 16V (EXCEPT KV-27S36) |
| C1267 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V (EXCEPT KV-27S36) |
| C1268 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (EXCEPT KV-27S36) |
| C1269 | 1-126-960-11 | ELECT | 1MF | 20% | 50V (EXCEPT KV-27S36) |
| C1270 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V (EXCEPT KV-27S36) |
| C1293 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V (EXCEPT KV-27S36) |
| C1351 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1352 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1353 | 1-163-037-11 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C1354 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | |
| C1401 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |
| C1402 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C1403 | 1-126-959-11 | ELECT | 0.47MF | 20% | 50V |

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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| REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|---|---|---|
| C1404 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | 50V |
| C1405 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | 50V |
| C1406 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | 50V |
| C1407 | 1-165-319-11 | CERAMIC CHIP | 0.1MF | 50V |
| C1408 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF 10% | 50V |
| C1409 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF 10% | 50V |
| C1410 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF 10% | 50V |
| C1411 | 1-164-161-11 | CERAMIC CHIP | 0.0022MF 10% | 50V |
| C1412 | 1-126-961-11 | ELECT | 2.2MF 20% | 50V |
| C1413 | 1-126-961-11 | ELECT | 2.2MF 20% | 50V |
| C1414 | 1-164-489-11 | CERAMIC CHIP | 0.22MF 10% | 16V |
| C1415 | 1-126-965-11 | ELECT | 22MF 20% | 50V |
| C1416 | 1-126-933-11 | ELECT | 100MF 20% | 16V |
| C1417 | 1-126-767-11 | ELECT | 1000MF 20% | 16V |
| C1420 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | 25V |

**FILTER BLOCK**

| | | |
|---|---|---|
| CM305 | 1-473-548-11 | FILTER BLOCK, COMB (KV-27S22/29RS22/29RS22C/29SD2/S9PS2) |

**CONNECTOR**

| | | |
|---|---|---|
| CN270 | 1-573-298-11 | CONNECTOR, BOARD TO BOARD 20P (KV-27S36) |
| CN271 | 1-573-978-21 | CONNECTOR, BOARD TO BOARD 11P (KV-27S36) |
| CN351 * | 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN461 * | 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN501 * | 1-580-798-11 | CONNECTOR PIN (DY) 6P |
| CN503 * | 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN1101 | 1-573-298-11 | CONNECTOR, BOARD TO BOARD 20P (KV-27S36) |
| CN1103 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD 11P |
| CN1641* | 1-564-515-11 | PLUG, CONNECTOR 12P |
| CN3001 | 1-573-298-11 | CONNECTOR, BOARD TO BOARD 20P (KV-27S26/27S36/29RS26/29RS26C) |

**DIODE**

| | | |
|---|---|---|
| D001 | 8-719-991-33 | DIODE 1SS133T-77 |
| D002 | 8-719-109-89 | DIODE RD5.6ESB2 |
| D003 | 8-719-991-33 | DIODE 1SS133T-77 |
| D004 | 8-719-110-17 | DIODE RD10ESB2 |
| D005 | 8-719-991-33 | DIODE 1SS133T-77 |
| D006 | 1-810-039-31 | LED UNIT |
| D011 | 8-719-983-14 | DIODE MTZJ-T-77-3.9 |
| D013 | 8-719-991-33 | DIODE 1SS133T-77 |
| D014 | 8-719-991-33 | DIODE 1SS133T-77 |
| D015 | 8-719-991-33 | DIODE 1SS133T-77 |
| D353 | 8-719-991-33 | DIODE 1SS133T-77 |
| D356 | 8-719-991-33 | DIODE 1SS133T-77 |
| D360 | 8-719-110-17 | DIODE RD10ESB2 |
| D362 | 8-719-991-33 | DIODE 1SS133T-77 |
| D368 | 8-719-991-33 | DIODE 1SS133T-77 (KV-27S26/27S36/29RS26/29RS26C) |
| D462 | 8-719-991-33 | DIODE 1SS133T-77 |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D501 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| D502 | 8-719-945-80 | DIODE ERC06-15S | |
| D503 | 8-719-945-80 | DIODE ERC06-15S | |
| D504 | 8-719-900-26 | DIODE ERD29-08J | |
| D505 | 8-719-908-03 | DIODE GP08D | |
| D506 | 8-719-908-03 | DIODE GP08D | |
| D507 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D515 | 8-719-302-43 | DIODE EL1Z | |
| D516 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D518 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D519 ⚠ | 8-719-302-43 | DIODE EL1Z | |
| D520 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D521 | 8-719-921-63 | DIODE MTZJ-7.5B | |
| D530 | 8-719-979-85 | DIODE EGP20G | |
| D531 | 8-719-979-85 | DIODE EGP20G | |
| D534 | 8-719-302-43 | DIODE EL1Z | |
| D561 | 8-719-908-03 | DIODE GP08D | |
| D562 | 8-719-991-33 | DIODE 1SS133T-77 | |
| D1102 | 8-719-982-24 | DIODE MTZJ-33A | |
| D1103 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| D1247 | 8-719-110-17 | DIODE MTZJ-T-77-10B | (EXCEPT KV-27S36) |
| D1248 | 8-719-981-99 | DIODE MTZJ-T-77-3.3 | |
| D1261 | 8-719-110-17 | DIODE MTZJ-T-77-10B | (EXCEPT KV-27S36) |
| D1262 | 8-719-110-17 | DIODE MTZJ-T-77-10B | (EXCEPT KV-27S36) |
| D1263 | 8-719-110-17 | DIODE RD10ESB2 | |
| D1264 | 8-719-110-17 | DIODE RD10ESB2 | |

**FERRITE BEAD**

| | | |
|---|---|---|
| FB501 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH |
| FB502 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB503 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |

**IC**

| | | |
|---|---|---|
| IC001 | 8-752-880-88 | IC CXP85840-002S |
| IC002 | 8-759-354-28 | IC ST24C02FM6TR |
| IC003 | 8-742-014-10 | HYB IC SBX1981-51 |
| IC351 | 8-752-076-76 | IC CXA2025AS |
| IC461 | 8-759-980-43 | IC TDA2009A |
| IC501 | 8-759-700-07 | IC NJM2903M |
| IC561 | 8-759-980-58 | IC TDA8172 |
| IC1001 | 8-752-058-68 | IC CXA1315M (KV-27S26/27S36/29RS26/29RS26C) |
| IC1261 | 8-759-366-77 | IC MM1311AD (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| IC1261 | 8-759-366-78 | IC MM1313AD (KV-27S26/29RS26/29RS26C) |
| IC1401 | 8-759-369-39 | IC BH3856FS-E2 |
| IC1402 | 8-759-100-96 | IC UPC4558G2 |

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| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | **JACK** | |
| J1232 | 1-774-749-11 | JACK BLOCK, PIN 3P | (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| J1232 | 1-774-751-11 | TERMINAL BLOCK, S 3P | (KV-27S26/29RS26/29RS26C) |
| J1233 | 1-774-749-11 | JACK BLOCK, PIN 3P | (KV-27S26/29RS26/29RS26C) |
| J1234 | 1-774-750-11 | JACK BLOCK, PIN 2P | (EXCEPT KV-26S36) |
| | | **CHIP CONDUCTOR** | |
| JR001 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR163 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR240 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR351 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| JR352 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| JR501 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR1264 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| JR1351 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR1352 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR4101 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR4108 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR4110 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR4114 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR4116 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| JR4120 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | |
| | | **COIL** | |
| L001 | 1-408-421-00 | INDUCTOR | 100UH |
| L002 | 1-408-421-00 | INDUCTOR | 100UH |
| L003 | 1-410-470-11 | INDUCTOR | 10UH |
| L004 | 1-410-470-11 | INDUCTOR | 10UH |
| L352 | 1-412-537-31 | INDUCTOR | 100UH |
| L461 | 1-408-408-00 | INDUCTOR | 8.2UH |
| L501 ⚠ | 1-409-861-11 | COIL, HORIZONTAL LINEARITY | |
| L502 | 1-412-552-11 | INDUCTOR | 2.2MMH |
| L503 | 1-406-677-11 | COIL, CHOKE | 10MMH |
| L511 | 1-406-607-11 | COIL, CHOKE | 15MMH |
| L517 | 1-412-552-11 | INDUCTOR | 2.2MMH |
| L1101 | 1-408-421-00 | INDUCTOR | 100UH |
| L1102 | 1-410-470-11 | INDUCTOR | 10UH |
| L1401 | 1-410-494-11 | INDUCTOR | 1MMH |
| | | **IC LINK** | |
| PS461 ⚠ | 1-532-984-11 | LINK, IC 2A/90V | |

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | **TRANSISTOR** | |
| Q001 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q002 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q003 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q010 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q011 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q012 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q013 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q014 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q015 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q016 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q017 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q301 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q302 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q303 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q354 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q356 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q358 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q461 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q462 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q501 | 8-729-140-50 | TRANSISTOR 2SC3209LK | |
| Q502 ⚠ | 8-729-016-32 | TRANSISTOR 2SC4927-01 | |
| Q511 ⚠ | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q512 ⚠ | 8-729-809-29 | TRANSISTOR 2SC4159-E | |
| Q551 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q552 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q561 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q562 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q563 | 8-729-105-08 | TRANSISTOR 2SA1330-O6 | |
| Q1102 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q1103 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1231 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1232 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1261 | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX | (EXCEPT KV-27S36) |
| Q1262 | 8-729-216-22 | TRANSISTOR 2SB709A-QRS-TX | (EXCEPT KV-27S36) |
| Q1263 | 8-729-422-27 | TRANSISTOR 2SB709A-QRS-TX | (EXCEPT KV-27S36) |
| | | **RESISTOR** | |
| R001 | 1-216-045-00 | METAL GLAZE 680 5% | 1/10W |
| R002 | 1-247-815-91 | CARBON 220 5% | 1/4W |
| R003 | 1-216-097-91 | METAL GLAZE 100K 5% | 1/10W |
| R004 | 1-216-121-91 | METAL GLAZE 1M 5% | 1/10W |
| R005 | 1-247-815-91 | CARBON 220 5% | 1/4W |
| R006 | 1-247-815-91 | CARBON 220 5% | 1/4W (KV-27S36) |
| R007 | 1-216-073-00 | METAL GLAZE 10K 5% | 1/10W |
| R008 | 1-247-815-91 | CARBON 220 5% | 1/4W (KV-27S36) |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R009 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R010 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R011 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R012 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| | | | (KV-27S26/27S36/29RS26/29RS26C) | | |
| R013 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R014 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R015 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R016 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R019 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R020 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R023 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R025 | 1-163-010-11 | CERAMIC CHIP | 0.0012MF | 10% | 50V |
| R026 | 1-163-038-91 | CERAMIC CHIP | 0.1MF | | 25V |
| R028 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R029 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R030 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R031 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | | | (KV-27S36) |
| R032 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R034 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R035 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R036 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R037 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R038 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R039 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R040 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | | | (KV-27S36) |
| R041 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| | | | | | (KV-27S36) |
| R042 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| | | | | | (KV-27S36) |
| R043 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| | | | | | (KV-27S36) |
| R044 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R045 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | | | (KV-27S36) |
| R046 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R047 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R048 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R049 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R050 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | | | (KV-27S36) |
| R051 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R052 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R054 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R055 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W |
| R056 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R057 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R058 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R059 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R060 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R061 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W |
| R062 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R063 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R064 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R065 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R066 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R067 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R068 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R069 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R070 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R071 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R072 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R073 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R074 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R075 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R076 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R077 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R078 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R079 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R080 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R081 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R082 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R083 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R084 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R087 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R090 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| | | | | | (KV-27S36) |
| R092 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R097 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R099 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R131 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R132 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W |
| R133 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R135 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R136 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R137 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R311 | 1-216-295-01 | CONDUCTOR CHIP (2012) | | | (EXCEPT KV-27S36) |
| R312 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| | | | | | (EXCEPT KV-27S36) |
| R313 | 1-216-295-91 | CONDUCTOR CHIP (2012) | | | (EXCEPT KV-27S36) |
| R314 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| | | | | | (EXCEPT KV-27S36) |
| R353 | 1-208-786-11 | METAL GLAZE | 1.5K | 0.50% | 1/10W |
| R354 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R355 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R356 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R358 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | | | (KV-27S26/27S36/29RS26/29RS26C) |

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**Note:** The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

**Note:** **The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R359 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | (KV-27S26/27S36/29RS26/29RS26C) | | |
| R360 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| | | | (KV-27S26/27S36/29RS26/29RS26C) | | |
| R361 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R362 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R363 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R364 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W |
| R365 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W |
| R366 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R367 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W |
| R368 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R369 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W |
| R372 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R373 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R374 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W |
| R375 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R376 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R379 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R380 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R381 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R382 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R383 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R384 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W |
| R385 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R386 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| | | | (KV-27S26/27S36/29RS26/29RS26C) | | |
| R387 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R388 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R389 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R390 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R391 | 1-208-810-11 | METAL GLAZE | 15K | 0.50% | 1/10W |
| R392 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R393 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R394 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R395 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R397 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R461 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R462 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R463 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R464 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W |
| R465 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R466 | 1-249-388-11 | CARBON | 3.9 | 5% | 1/4W F |
| R467 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R469 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R471 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R472 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R473 | 1-249-398-11 | CARBON | 27 | 5% | 1/4W |
| R475 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R476 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R477 | 1-249-398-11 | CARBON | 27 | 5% | 1/4W |
| R478 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W F |
| R479 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W F |
| R480 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W F |
| R481 | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W F |
| R482 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R483 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R501 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R502 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R503 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W F |
| R504 ⚠ | 1-215-918-00 | METAL OXIDE | 1.5K | 5% | 3W F |
| R505 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W |
| R506 | 1-215-861-00 | METAL OXIDE | 47 | 5% | 1W F |
| R507 | 1-249-401-11 | CARBON | 47 | 5% | 1/4W |
| R508 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W |
| R509 | 1-247-750-11 | CARBON | 680 | 5% | 1/2W F |
| R510 ⚠ | 1-215-860-11 | METAL OXIDE | 33 | 5% | 1W F |
| R511 ⚠ | 1-216-449-11 | METAL OXIDE | 56 | 5% | 2W F |
| R512 ⚠ | 1-216-450-00 | METAL OXIDE | 82 | 5% | 2W F |
| R513 | 1-216-347-11 | METAL OXIDE | 0.68 | 5% | 1W F |
| R515 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R516 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R517 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R518 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R519 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R523 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R524 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R525 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W |
| R528 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R529 | 1-208-814-11 | METAL GLAZE | 22K | 0.50% | 1/10W |
| ⊠ R530 ⚠ | | METAL GLAZE | | | 1/10W |
| ⊠ R531 ⚠ | | METAL GLAZE | | | 1/10W |
| R532 | 1-208-760-11 | METAL GLAZE | 120 | 0.50% | 1/10W |
| R533 ⚠ | 1-215-902-11 | METAL OXIDE | 47K | 5% | 1W F |
| R535 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W |
| R536 ⚠ | 1-260-288-11 | CARBON | 0.47 | 5% | 1/2W |
| R537 ⚠ | 1-260-288-11 | CARBON | 0.47 | 5% | 1/2W |
| R538 | 1-247-887-00 | CARBON | 220K | 5% | 1/4W |
| R543 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R546 | 1-215-456-00 | METAL | 30K | 1% | 1/4W |
| R547 | 1-215-457-00 | METAL | 33K | 1% | 1/4W |
| R549 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W |
| R550 ⚠ | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R551 | 1-215-873-00 | METAL OXIDE | 4.7K | 5% | 1W F |
| R552 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R553 ⚠ | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W F |
| R554 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R561 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R563 ⚠ | 1-216-351-00 | METAL OXIDE | 1.5 | 5% | 1W F | |
| R564 | 1-249-392-11 | CARBON | 8.2 | 5% | 1/4W | |
| R565 ⚠ | 1-215-890-11 | METAL OXIDE | 470 | 5% | 2W F | |
| R566 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R567 ⚠ | 1-249-385-11 | CARBON | 2.2 | 5% | 1/4W F | |
| R568 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R569 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R570 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W | |
| R571 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R572 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R573 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W | |
| R574 ⚠ | 1-216-365-00 | METAL OXIDE | 0.47 | 5% | 2W F | |
| R575 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R576 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R577 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W | |
| R578 | 1-208-784-11 | METAL GLAZE | 1.2K | 0.50% | 1/10W | |
| R579 | 1-208-842-11 | METAL GLAZE | 330K | 0.50% | 1/10W | |
| R580 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R1001 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | (KV-27S26/27S36/29RS26/29RS26C) |
| R1002 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | (KV-27S26/27S36/29RS26/29RS26C) |
| R1005 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | (KV-27S26/27S36/29RS26/29RS26C) |
| R1009 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1010 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1101 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1102 | 1-215-900-11 | METAL OXIDE | 22K | 5% | 2W F | |
| R1103 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R1104 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R1105 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R1106 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1107 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1108 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1109 | 1-216-019-00 | METAL GLAZE | 56 | 5% | 1/10W | |
| R1110 | 1-216-019-00 | METAL GLAZE | 56 | 5% | 1/10W | |
| R1111 | 1-216-019-00 | METAL GLAZE | 56 | 5% | 1/10W | |
| R1115 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R1117 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1118 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1120 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1121 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R1122 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W | |
| R1123 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R1125 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1126 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R1127 | 1-216-115-00 | METAL GLAZE | 560K | 5% | 1/10W | |
| R1128 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R1130 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1234 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (EXCEPT KV-27S36) |
| R1240 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | (KV-27S26/27S36/29RS26/29RS26C) |
| R1241 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | (KV-27S26/27S36/29RS26/29RS26C) |
| R1242 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | (KV-27S26/27S36/29RS26/29RS26C) |
| R1243 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | (EXCEPT KV-27S36) |
| R1244 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1245 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1246 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1247 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1248 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1249 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1250 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1251 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1252 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1253 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1254 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1255 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1255 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | | (KV-27S36) |
| R1256 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1257 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1258 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1259 | 1-216-097-91 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1260 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1261 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1262 | 1-216-025-91 | METAL GLAZE | 220 | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1263 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1264 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | (EXCEPT KV-27S36) |
| R1265 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | (KV-27S26/29RS26/29RS26C) |
| R1266 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W | (EXCEPT KV-27S36) |

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Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R1272 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| R1273 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W (KV-27S26/29RS26/29RS26C) |
| R1274 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W (KV-27S26/29RS26/29RS26C) |
| R1277 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W (EXCEPT KV-27S36) |
| R1278 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W (EXCEPT KV-27S36) |
| R1280 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W (EXCEPT KV-27S36) |
| R1282 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W (EXCEPT KV-27S36) |
| R1283 | 1-247-791-91 | CARBON | 22 | 5% | 1/4W (KV-27S26/29RS26/29RS26C) |
| R1284 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W (EXCEPT KV-27S36) |
| R1286 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W (EXCEPT KV-27S36) |
| R1287 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W (EXCEPT KV-27S36) |
| R1288 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W (EXCEPT KV-27S36) |
| R1290 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W (EXCEPT KV-27S36) |
| R1291 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W (EXCEPT KV-27S36) |
| R1292 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W (EXCEPT KV-27S36) |
| R1293 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W (EXCEPT KV-27S36) |
| R1294 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R1295 | 1-216-049-91 | METAL GLAZE | 1K | 5% | 1/10W |
| R1296 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| R1297 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W (KV-27S26/29RS26/29RS26C) |
| R1351 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R1352 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R1353 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R1354 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R1355 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R1356 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R1357 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R1358 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R1359 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R1360 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R1361 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R1362 | 1-216-295-91 | CONDUCTOR, CHIP | (2012) | | |
| R1402 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (EXCEPT KV-27S36) |
| R1404 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (EXCEPT KV-27S36) |
| R1407 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R1408 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (KV-27S36) |
| R1409 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W (KV-27S36) |
| R1411 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R1412 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R1413 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R1414 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R1415 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R1418 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R1419 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R1420 | 1-216-089-91 | METAL GLAZE | 47K | 5% | 1/10W |
| R1421 | 1-216-025-91 | METAL GLAZE | 100 | 5% | 1/10W |
| R1424 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R1425 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |

## SWITCH

| | | |
|---|---|---|
| S001 | 1-692-431-21 | SWITCH, TACTILE |
| S002 | 1-692-431-21 | SWITCH, TACTILE |
| S003 | 1-692-431-21 | SWITCH, TACTILE |
| S004 | 1-692-431-21 | SWITCH, TACTILE |
| S005 | 1-692-431-21 | SWITCH, TACTILE |
| S006 | 1-692-431-21 | SWITCH, TACTILE |
| S007 | 1-692-431-21 | SWITCH, TACTILE |
| S501 | 1-572-707-11 | SWITCH, LEVER |

## TRANSFORMER

| | | |
|---|---|---|
| T501 | 1-437-210-11 | TRANSFORMER, HORIZONTAL DRIVE |
| T502 ⚠ | 1-424-545-11 | TRANSFORMER, FERRITE (PMT) |
| T503 ⚠ | 1-453-207-11 | TRANSFORMER ASSY, FLYBACK (NX-2609//X4C) |

## TUNER

| | | |
|---|---|---|
| TU102 ⚠ | 8-598-340-00 | TUNER BTF-WA404 |

## CRYSTAL

| | | |
|---|---|---|
| X001 | 1-578-774-11 | VIBRATOR, CRYSTAL |
| X353 | 1-567-505-11 | OSCILLATOR, CRYSTAL |
| X354 | 1-577-611-11 | OSCILALTOR, CERAMIC |

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

G

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|

G

* A-1316-249-A G BOARD, COMPLETE (KV-27S22/27S26)
* A-1316-252-A G BOARD, COMPLETE (KV-29RS22C/29RS26C)
* A-1316-261-A G BOARD, COMPLETE (KV-27S36)
* A-1316-296-A G BOARD, COMPLETE (KV-29RS22/29RS26/29SD2/29PS2)

4-382-854-11 SCREW (M3X10), P, SW (+)

**CAPACITOR**

| | | | | | |
|---|---|---|---|---|---|
| C602 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V (KV-29RS22C/29RS26C) |
| C603 ⚠ | 1-113-915-11 | CERAMIC | 0.001MF | 20% | 250V |
| C604 ⚠ | 1-136-346-21 | FILM | 0.22MF | 20% | 125V (KV-27S36) |
| C605 ⚠ | 1-136-346-21 | FILM | 0.22MF | 20% | 125V (KV-27S22/27S26/27S36/29PS2/29SD2/29RS22/29RS26) |
| C605 ⚠ | 1-136-346-21 | FILM | 0.22MF | 20% | 300V (KV-29RS22C/29RS26C) |
| C606 ⚠ | 1-115-388-11 | ELECT | 560MF | 20% | 200V |
| C607 ⚠ | 1-115-388-11 | ELECT | 560MF | 20% | 200V |
| C608 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V (KV-27S22/27S26/27S36/29PS2/29SD2/29RS22/29RS26) |
| C608 | 1-164-645-11 | CERAMIC | 1000PF | 10% | 500V (KV-29RS22C/29RS26C) |
| C609 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C610 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C611 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C612 | 1-136-169-00 | FILM | 0.22MF | 5% | 50V |
| C613 | 1-164-645-11 | CERAMIC | 1000PF | 10% | 500V |
| C614 | 1-164-645-11 | CERAMIC | 1000PF | 10% | 500V |
| C615 | 1-136-759-11 | FILM | 0.039MF | 5% | 630V |
| C617 ⚠ | 1-113-915-11 | CERAMIC | 0.001MF | 20% | 250V (KV-27S26/27S22/27S36/29RS22C/29RS26C) |
| C626 ⚠ | 1-113-897-11 | CERAMIC | 100PF | 10% | 250V (KV-29RS22C/29RS26C) |
| C641 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C642 | 1-126-767-11 | ELECT | 1000MF | 20% | 16V |
| C643 | 1-107-641-11 | ELECT | 220MF | 20% | 160V |
| C646 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C647 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C648 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C651 | 1-137-366-11 | FILM | 0.0022MF | 5% | 50V |
| C652 | 1-106-351-00 | MYLAR | 0.0022MF | 99% | 200V |
| C653 | 1-107-636-11 | ELECT | 10MF | 20% | 160V |
| C654 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C655 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C656 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C657 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C661 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V (KV-27S26/27S22/27S36/29RS26/29PS/29SD2/29RS22) |
| C690 | 1-164-645-11 | CERAMIC | 1000PF | 10% | 500V |
| C691 | 1-164-645-11 | CERAMIC | 1000PF | 10% | 500V |

**CONNECTOR**

| | | |
|---|---|---|
| CN601 * | 1-508-765-00 | PIN, CONNECTOR (5MM PITCH) 3P |
| CN602 * | 1-580-844-11 | PIN, CONNECTOR (POWER) |
| CN641 * | 1-564-515-11 | PLUG, CONNECTOR 12P |

**DIODE**

| | | |
|---|---|---|
| D601 | 8-719-911-19 | DIODE 1SS119-25 |
| D602 ⚠ | 8-719-510-53 | DIODE D4SB60L |
| D603 | 8-719-911-19 | DIODE 1SS119-25 |
| D604 | 8-719-911-19 | DIODE 1SS119-25 |
| D605 | 8-719-911-19 | DIODE 1SS119-25 |
| D606 | 8-719-911-19 | DIODE 1SS119-25 |
| D607 | 8-719-911-19 | DIODE 1SS119-25 |
| D608 | 8-719-911-19 | DIODE 1SS119-25 |
| D609 | 8-719-911-19 | DIODE 1SS119-25 |
| D610 | 8-719-911-19 | DIODE 1SS119-25 |
| D615 | 8-719-028-45 | DIODE D2L20U |
| D641 | 8-719-052-40 | DIODE RBA-1004B |
| D643 | 8-719-028-45 | DIODE D2L20U |
| D644 | 8-719-028-45 | DIODE D2L20U |
| D645 | 8-719-028-45 | DIODE D2L20U |
| D646 | 8-719-510-12 | DIODE D10SC4M |
| D648 | 8-719-057-52 | DIODE EZ0150AV1 |
| D649 | 8-719-510-02 | DIODE D1NS4 |
| D650 | 8-719-510-02 | DIODE D1NS4 |

**FUSE**

| | | |
|---|---|---|
| F601 ⚠ | 1-576-193-11 | FUSE 6.3A/125V (KV-27S26/27S22/27S36/29RS26/29PS2/29SD2/29RS22) |
| F601 ⚠ | 1-576-193-11 | FUSE 6.3A/250V (KV-29RS26C/29RS22C) |
| | 1-533-223-11 | HOLDER, FUSE (for F601) |

**FERRITE BEAD**

| | | |
|---|---|---|
| FB601 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB602 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB641 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB642 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB643 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB644 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB645 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB646 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB647 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB648 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |

**G**

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | **IC** | |
| IC641 | 8-749-920-58 | IC SI-3090CA | |
| IC642 | 8-759-701-56 | IC NJM78M05FA | |
| IC643 | 8-749-012-13 | IC DM-58 | |
| | | **COIL** | |
| L642 | 1-412-529-11 | INDUCTOR 22UH | |
| L643 | 1-412-525-31 | INDUCTOR 10UH | |
| | | **TRANSISTOR** | |
| Q601 ⚠ | 8-729-019-49 | TRANSISTOR 2SC4834MNP | (EXCEPT KV-29RS22C/29RS26C) |
| Q601 ⚠ | 8-729-019-50 | TRANSISTOR 2SC4834NP | (KV-29RS22C/29RS26C) |
| Q602 ⚠ | 8-729-019-49 | TRANSISTOR 2SC4834MNP | (EXCEPT KV-29RS22C/29RS26C) |
| Q602 ⚠ | 8-729-019-50 | TRANSISTOR 2SC4834NP | (KV-29RS22C/29RS26C) |
| Q644 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q645 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | |
| Q646 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | (EXCEPT KV-29RS22C/29RS26C) |
| | | **RESISTOR** | |
| R603 ⚠ | 1-219-776-11 | CARBON 2.2M 10% 1/2W | (EXCEPT KV-29RS22C/29RS26C) |
| R603 ⚠ | 1-247-289-00 | CARBON 8.2M 5% 1W | (KV-29RS22C/29RS26C) |
| R605 | 1-247-893-11 | CARBON 390K 5% 1/4W | |
| R606 | 1-247-893-11 | CARBON 390K 5% 1/4W | |
| R607 ⚠ | 1-202-933-61 | FUSIBLE 0.1 10% 1/2W F | |
| R608 ⚠ | 1-216-369-00 | METAL OXIDE 1 5% 2W F | (KV-29RS22C/29RS26C) |
| R608 ⚠ | 1-216-372-11 | METAL OXIDE 1.8 5% 2W F | (EXCEPT KV-29RS22C/29RS26C) |
| R609 | 1-247-791-91 | CARBON 22 5% 1/4W | |
| R610 | 1-247-791-91 | CARBON 22 5% 1/4W | |
| R611 ⚠ | 1-216-369-00 | METAL OXIDE 1 5% 2W F | (KV-29RS22C/29RS26C) |
| R611 ⚠ | 1-216-372-11 | METAL OXIDE 1.8 5% 2W F | (EXCEPT KV-29RS22C/29RS26C) |
| R612 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R613 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R614 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R615 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R616 | 1-247-791-91 | CARBON 22 5% 1/4W | |
| R617 | 1-247-791-91 | CARBON 22 5% 1/4W | |
| R622 ⚠ | 1-212-958-00 | FUSIBLE 10 5% 1/2W F | |
| R623 ⚠ | 1-243-032-11 | WIREBOUND 3.9 5% 20W | (KV-29RS22C/29RS26C) |
| R623 ⚠ | 1-205-943-11 | WIREWOUND 1 5% 20W | (EXCEPT KV-29RS22C/29RS26C) |
| R641 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R642 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R643 | 1-249-387-11 | CARBON 3.3 5% 1/4W F | |
| R644 ⚠ | 1-215-882-00 | METAL OXIDE 22 5% 2W F | |
| R645 ⚠ | 1-260-304-51 | CARBON 10 5% 1/2W | (KV-29RS22C/29RS26C) |
| R646 | 1-216-369-00 | METAL OXIDE 1 55 2W F | (KV-27S26/27S22/29RS26/29PS2/29SD2/29RS22) |
| R647 | 1-249-417-11 | CARBON 1K 5% 1/4W | |
| R648 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R649 | 1-249-425-11 | CARBON 4.7K 5% 1/4W F | |
| R652 | 1-249-421-11 | CARBON 2.2K 5% 1/4W | |
| R659 | 1-249-429-11 | CARBON 10K 5% 1/4W | (KV-29RS22C/29RS26C) |
| R661 | 1-249-413-11 | CARBON 470 5% 1/4W F | |
| R662 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R663 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R664 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R665 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R666 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R667 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R668 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R670 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R671 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R672 ⚠ | 1-249-377-11 | CARBON 0.47 5% 1/4W F | |
| R678 | 1-247-863-91 | CARBON 22K 5% 1/4W | (EXCEPT KV-29RS22C/29RS26C) |
| R679 | 1-247-863-91 | CARBON 22K 5% 1/4W | (EXCEPT KV-29RS22C/29RS26C) |
| R680 | 1-249-429-11 | CARBON 10K 5% 1/4W | (EXCEPT KV-29RS22C/29RS26C) |
| R681 | 1-249-407-11 | CARBON 150 5% 1/4W | (EXCEPT KV-29RS22C/29RS26C) |
| | | **RELAY** | |
| RY601 ⚠ | 1-755-018-11 | RELAY (EXCEPT KV-27S36) | |
| RY601 ⚠ | 1-755-146-11 | RELAY (KV-27S36) | |
| | | **TRANSFORMER** | |
| T601 ⚠ | 1-426-717-11 | TRANSFORMER, LINE FILTER (LFT) | (KV-27S26/27S22/27S36) |
| T602 ⚠ | 1-424-220-11 | TRANSFORMER, LINE FILTER | (KV-27S26/27S22/27S36) |
| T602 ⚠ | 1-426-717-11 | TRANSFORMER, LINE FILTER (LFT) | (KV-29RS26/29PS2/29SD2/29RS22/29RS22C/29RS26C) |
| T603 ⚠ | 1-427-864-11 | TRANSFORMER, CONVERTER (PRT) | |
| T605 ⚠ | 1-429-415-11 | TRANSFORMER, CONVERTER (PIT) | |

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

G C

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | **THERMISTOR** | |
| THP601 | ⚠ 1-809-539-21 | THERMISTOR, POSITIVE (EXCEPT KV-29RS26C/9RS22C) | |
| THP601 | ⚠ 1-809-827-11 | THERMISTOR, POSITIVE (KV-29RS26C/9RS22C) | |
| | | **VARISTOR** | |
| VDR601 | 1-810-974-21 | VARISTOR | |

C

* A-1331-549-A C BOARD, MOUNTED

4-382-854-11 SCREW (M3X10), P, SW (+)

**CAPACITOR**

| | | | | | |
|---|---|---|---|---|---|
| C1765 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C1766 | 1-102-117-00 | CERAMIC | 820PF | 10% | 50V |
| C1767 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C1775 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C1776 | 1-102-117-00 | CERAMIC | 820PF | 10% | 50V |
| C1777 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C1785 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C1786 | 1-102-117-00 | CERAMIC | 820PF | 10% | 50V |
| C1787 | 1-102-116-00 | CERAMIC | 680PF | 10% | 50V |
| C1790 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V |
| C1791 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1793 | 1-107-651-11 | ELECT | 4.7MF | 20% | 250V |
| C1795 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C1797 | 1-106-375-12 | MYLAR | 0.022MF | 99% | 200V |
| C1798 | 1-106-375-12 | MYLAR | 0.022MF | 99% | 200V |
| C1799 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV |

**CONNECTOR**

| | | |
|---|---|---|
| CN1761* | 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN1764* | 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN1765 | 1-695-915-11 | TAB (CONTACT) |
| CN1766 | 1-695-915-11 | TAB (CONTACT) |

**DIODE**

| | | |
|---|---|---|
| D1761 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1762 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1763 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1771 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1772 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1773 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1781 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1782 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1783 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1790 | 8-719-991-33 | DIODE 1SS133T-77 |
| D1792 | 8-719-983-14 | DIODE MTZJ-T-77-3.9 |

**JACK**

| | | |
|---|---|---|
| J1761 | ⚠ 1-251-388-11 | SOCKET, CRT |

**COIL**

| | | | |
|---|---|---|---|
| L1790 | 1-410-667-31 | INDUCTOR | 22UH |

**TRANSISTOR**

| | | |
|---|---|---|
| Q1761 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q1762 | 8-729-326-11 | TRANSISTOR 2SC2611 |
| Q1763 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q1771 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q1772 | 8-729-326-11 | TRANSISTOR 2SC2611 |
| Q1773 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q1781 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE |
| Q1782 | 8-729-326-11 | TRANSISTOR 2SC2611 |
| Q1783 | 8-729-200-17 | TRANSISTOR 2SA1091-O |
| Q1790 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE |

**RESISTOR**

| | | | | | |
|---|---|---|---|---|---|
| R1760 | 1-260-105-11 | CARBON | 3.3K | 5% | 1/2W |
| R1761 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R1763 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W F |
| R1764 | ⚠ 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W F |
| R1765 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R1766 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R1767 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1768 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R1770 | 1-260-105-11 | CARBON | 3.3K | 5% | 1/2W |
| R1771 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R1773 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W F |
| R1774 | ⚠ 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W F |
| R1775 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W |
| R1776 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R1777 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1780 | 1-260-105-11 | CARBON | 3.3K | 5% | 1/2W |
| R1781 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W |
| R1783 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W F |
| R1784 | ⚠ 1-216-486-00 | METAL OXIDE | 8.2K | 5% | 3W F |
| R1785 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W |
| R1786 | 1-249-393-11 | CARBON | 10 | 5% | 1/4W |
| R1787 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R1789 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R1792 | 1-247-815-91 | CARBON | 220 | 5% | 1/4W |
| R1793 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W |

**SC** **UV**

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R1794 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R1795 | 1-260-087-11 | CARBON | 100 | 5% | 1/2W |
| R1796 ⚠ | 1-216-374-00 | METAL OXIDE | 2.7 | 5% | 2W F |
| R1797 | 1-260-123-11 | CARBON | 100K | 5% | 1/2W |

## SC

* A-1390-585-A SC BOARD, MOUNTED (KV-27S36 ONLY)

### CONNECTOR

| | | |
|---|---|---|
| CN104 | 1-573-978-21 | CONNECTOR, BOARD TO BOARD 11P |
| CN105 | 1-573-978-21 | CONNECTOR, BOARD TO BOARD 11P |

## UV

* A-1394-863-A UV BOARD, COMPLETE (KV-27S36 ONLY)

### CAPACITOR

| | | | | | |
|---|---|---|---|---|---|
| C231 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C232 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C233 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C234 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C235 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C236 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C237 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C238 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C261 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C262 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C263 | 1-136-161-00 | FILM | 0.047MF | 5% | 50V |
| C264 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C265 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C266 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C267 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C270 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C271 | 1-126-960-11 | ELECT | 1MF | 20% | 50V |
| C273 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C274 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C276 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C301 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |

### FILTER BLOCK

| | | |
|---|---|---|
| CM301 | 1-467-554-21 | FILTER BLOCK, COMB |

### CONNECTOR

| | | |
|---|---|---|
| CN261 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD 11P |
| CN262 | 1-573-301-21 | CONNECTOR, BOARD TO BOARD 20P |
| CN263 * | 1-564-506-11 | PLUG, CONNECTOR 3P |
| CN264 | 1-573-979-21 | CONNECTOR, BOARD TO BOARD 11P |

### DIODE

| | | |
|---|---|---|
| D231 | 8-719-110-17 | DIODE RD10ESB2 |
| D232 | 8-719-110-17 | DIODE RD10ESB2 |
| D233 | 8-719-110-17 | DIODE RD10ESB2 |
| D234 | 8-719-110-17 | DIODE RD10ESB2 |
| D235 | 8-719-110-17 | DIODE RD10ESB2 |
| D236 | 8-719-110-17 | DIODE RD10ESB2 |
| D240 | 8-719-110-17 | DIODE RD10ESB2 |
| D241 | 8-719-110-17 | DIODE RD10ESB2 |
| D242 | 8-719-110-17 | DIODE RD10ESB2 |
| D243 | 8-719-110-17 | DIODE RD10ESB2 |
| D244 | 8-719-110-17 | DIODE RD10ESB2 |
| D264 | 8-719-110-17 | DIODE RD10ESB2 |
| D265 | 8-719-110-17 | DIODE RD10ESB2 |

### IC

| | | |
|---|---|---|
| IC261 | 8-759-366-78 | IC MM1313AD |

### JACK

| | | |
|---|---|---|
| J231 | 1-750-515-11 | TERMINAL BLOCK, S 3P |
| J232 | 1-774-746-11 | JACK BLOCK, PIN |
| J233 | 1-774-747-11 | JACK BLOCK, PIN |

### CHIP CONDUCTOR

| | | |
|---|---|---|
| JR151 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR152 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR201 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR204 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR205 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR206 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR208 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR209 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR210 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR211 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR212 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR213 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR214 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR215 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR216 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR217 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR218 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR219 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR220 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR221 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR222 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |
| JR223 | 1-216-295-91 | CONDUCTOR, CHIP (2012) |

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Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

**UV**

| REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| JR226 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | | | |
| JR228 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | | | |
| JR261 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | | | |
| JR262 | 1-216-295-91 | CONDUCTOR, CHIP (2012) | | | |
| | **JUMPER WIRE** | | | | |
| JW226 | 1-249-389-11 | CARBON | 4.7 | 5% 1/4W | |
| JW280 | 1-249-385-11 | CARBON | 2.2 | 5% 1/4W | |
| | **TRANSISTOR** | | | | |
| Q243 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q261 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q262 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | | | |
| Q263 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q265 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| | **RESISTOR** | | | | |
| R212 | 1-249-440-11 | CARBON | 82K | 5% 1/4W | |
| R225 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R226 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R227 | 1-249-440-11 | CARBON | 82K | 5% 1/4W | |
| R228 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R229 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R230 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R231 | 1-216-022-00 | METAL GLAZE | 75 | 5% 1/10W | |
| R232 | 1-216-022-00 | METAL GLAZE | 75 | 5% 1/10W | |
| R233 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R234 | 1-216-022-00 | METAL GLAZE | 75 | 5% 1/10W | |
| R235 | 1-216-113-00 | METAL GLAZE | 470K | 5% 1/10W | |
| R236 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R237 | 1-216-113-00 | METAL GLAZE | 470K | 5% 1/10W | |
| R238 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R239 | 1-216-022-00 | METAL GLAZE | 75 | 5% 1/10W | |
| R240 | 1-216-113-00 | METAL GLAZE | 470K | 5% 1/10W | |
| R241 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R242 | 1-216-113-00 | METAL GLAZE | 470K | 5% 1/10W | |
| R243 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R244 | 1-216-113-00 | METAL GLAZE | 470K | 5% 1/10W | |
| R245 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |
| R246 | 1-216-113-00 | METAL GLAZE | 470K | 5% 1/10W | |
| R247 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |
| R260 | 1-247-807-31 | CARBON | 100 | 5% 1/4W | |
| R264 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R265 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R266 | 1-216-043-91 | METAL GLAZE | 560 | 5% 1/10W | |
| R267 | 1-249-415-11 | CARBON | 680 | 5% 1/4W | |
| R268 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R269 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R270 | 1-216-041-00 | METAL GLAZE | 470 | 5% 1/10W | |
| R271 | 1-249-415-11 | CARBON | 680 | 5% 1/4W | |
| R272 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |
| R275 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W | |
| R276 | 1-249-425-11 | CARBON | 4.7K | 5% 1/4W | |
| R277 | 1-216-049-91 | METAL GLAZE | 1K | 5% 1/10W | |
| R279 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R280 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R281 | 1-216-033-00 | METAL GLAZE | 220 | 5% 1/10W | |
| R282 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R283 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R284 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R285 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% 1/10W | |
| R286 | 1-216-049-91 | METAL GLAZE | 1K | 5% 1/10W | |
| R288 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R289 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R290 | 1-247-815-91 | CARBON | 220 | 5% 1/4W | |
| R291 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R293 | 1-216-025-91 | METAL GLAZE | 100 | 5% 1/10W | |
| R294 | 1-216-049-91 | METAL GLAZE | 1K | 5% 1/10W | |
| R301 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |
| R304 | 1-249-417-11 | CARBON | 1K | 5% 1/4W | |

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Note: Les composants identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

| REF.NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | **MISCELLANEOUS** | |
| ⚠ | 1-406-728-81 | COIL, DEMAGNETIC (KV-29RS22C/29RS26C) | |
| ⚠ | 1-411-899-11 | COIL, DEMAGNETIC (EXCEPT KV-29RS22C/29RS26C) | |
| | 1-452-032-00 | MAGNET,DISC | |
| | 1-504-531-11 | SPEAKER (13.1X6.2CM) | |
| * | 1-556-945-21 | CABLE, P-P (KV-27S36) | |
| * | 1-557-056-31 | CABLE, P-P (KV-27S36) | |
| * | 4-052-905-01 | V5/6 BRACKET (KV-27S36) | |
| | 8-598-414-00 | ANTENNA SWITCH AS-2F (KV-27S36) | |
| ⚠ | 1-751-059-11 | CORD, POWER (WITH CONNECTOR) 10A/250V | (EXCEPT KV-29RS22C/29RS26C) |
| ⚠ | 1-769-796-41 | CORD, POWER (WITH CONNECTOR) 10A/125V | (KV-29RS22C/29RS26C) |
| ⚠ | 8-451-275-42 | DEFLECTION YOKE Y28PFA | |
| ⚠ | 8-733-848-05 | CRT 29PXD (SD-268) (EXCEPT 29RS22C/29RS26C) | |
| ⚠ | 8-733-849-05 | CRT 29PXD (SD-268) (29RS22C/29RS26C) | |
| ⚠ | 1-453-207-11 | TRANSFORMER ASSY, FLYBACK (NX-2609//X4C) | |
| | | **ACCESSORIES AND PACKING MATERIALS** | |
| | 3-859-518-21 | MANUAL, INSTRUCTION (KV-27S26/27S36) | |
| | 3-859-518-23 | MANUAL, INSTRUCTION (KV-27S22) | |
| | 3-859-518-41 | MANUAL, INSTRUCTION (29RS26/29RS26C) | |
| | 3-859-518-43 | MANUAL, INSTRUCTION | (KV-29RS22/29RS22C/29SD2/29PS2) |
| * | 4-041-277-01 | INDIVIDUAL CARTON (KV-27S22/27S26/27S36) | |
| * | 4-048-944-01 | INDIVIDUAL CARTON | (KV-29RS22/29RS22C/29RS26/29RS26C) |
| * | 4-060-350-01 | INDIVIDUAL CARTON (KV-29SD2) | |
| * | 4-060-351-01 | INDIVIDUAL CARTON (KV-29PS2) | |
| * | 4-041-255-01 | BAG, PROTECTION | |
| * | 4-052-382-01 | CUSHION (UPPER) (ASSY) | |
| * | 4-052-383-01 | CUSHION (LOWER) (ASSY) | |
| | | **REMOTE COMMANDER** | |
| | 1-473-748-31 | REMOTE COMMANDER (RM-Y135A) | (KV-27S22/29RS22/29RS22C/29SD2/29PS2) |
| | 1-473-749-31 | REMOTE COMMANDER (RM-Y136A) | (KV-27S26/27S36/29RS26/29RS26C) |
| | 4-978-977-01 | LID, BATTERY COVER (for RM-Y135A/136A) | |

**NOTES:**